AMPLIFIER 70FA931

/00S/01S

Service
Service
Service

ServiceManual

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4822 725 23964

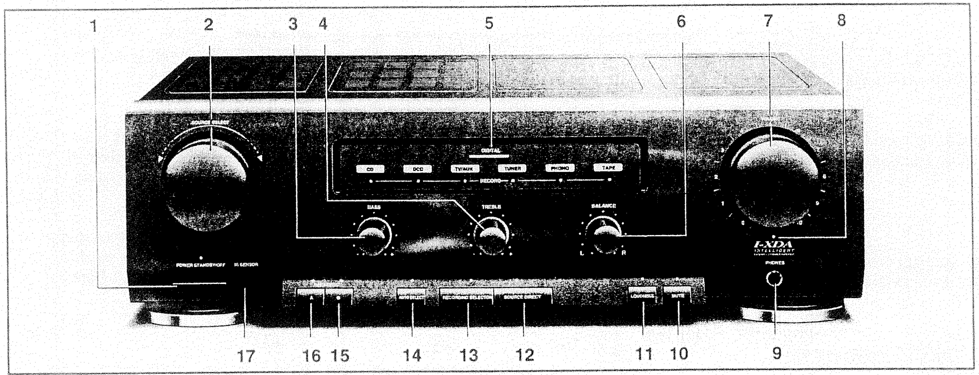
PHILIPS

PCS 69 275

SPECIFICATION

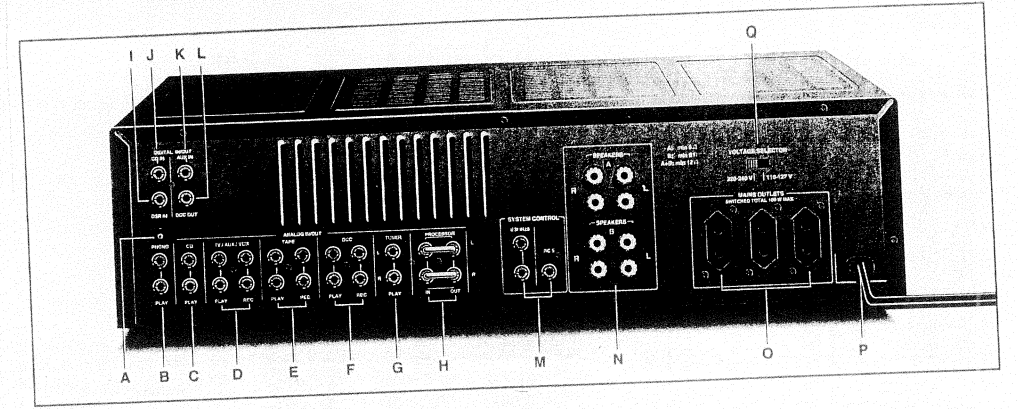
General:	
Mains voltage	:230V 50Hz for/00 :240V 50Hz for/05 :120/230V 50Hz/60Hz for/01
Power consumption	:≤ 290W at 2x115W output power (at8Ω load) :≤ 420W at 2x130W output power(at4Ω load) :≤ 20W at stand by
Fuzzy Power Control	:checks the output power level continuously
Dimensions:(wxhxd)	:435x124x300 mm
Amplifier:	
Output power & Distortion (D)	:≤2x 65W at 8Ω D=≤0,7%(IEC/DIN) :≤2x 75W at 4Ω D=≤0,7%(IEC 268.3) :≤2x 55W at 8Ω D=≤0,01% (at 1kHz) :≤2x 55W at 8Ω D=≤0,09% (20Hz...20kHz)
Max output power	:≤2x115W at 8Ω with IEC 268 noise :≤2x130W at 4Ω with IEC 268 noise1
Power bandwidth	:5Hz....60kHz D=≤0,7% (Prated -3dB)
Sign.Noise:	
Phono input M.M.	:≥80dBA (A-curve weighted)(IEC at Prated and Rsource=2k2)
Linear inputs	:≥101dBA (A-curve weighted)(IEC at Prated and Rsource=22kΩ)
Crosstalk :	
Between channels	:≥50dB (100Hz.....10kHz)
source	:≥65dB (100Hz.....10kHz)
Loudspeaker impedance	:8.....16Ω
Two pair of speakers in parallel	:impedance 16Ω only
Headphone	:6,3mm stereo jack
Output voltage	:≥ 7,5V EMF value
Output impedance	:120Ω ±10%
Frequency characteristic	
Linear inputs (direct mode)	:15Hz....45kHz :≤1dB (at 1kHz)
Phono amplifier M.M.	:20Hz....20kHz :≤1dB (at 1kHz)
Tone controle	:Bass +10dB to -10dB ±2dB at 80Hz :Treble +10dB to -10dB ±2dB at 10kHZ :Loudness +6dB ±2dB volume ≤-40dB at 100Hz +4dB ±1,5dB volume ≤-40dB at10kHz
Mute attenuation	:-20dB ±3dB
Volume gain alignment	:≤2dB 0....-40dB
Balance control	: 0.....-60dB minimum
Input sensitivity	:Tuner 250mV Ri ≥ 20kΩ :TV/AUX 250mV Ri ≥ 20kΩ :CD 250mV Ri ≥ 20kΩ :Tape 250mV Ri ≥ 20kΩ :DCC 250mV Ri ≥ 20kΩ :Process 250mV Ri ≥ 20kΩ :Phono/MM 2,5mV Ri ≥ 47kΩ/220pf :Output voltage :TV/AUX 250mV Ro < 2k5 :Tape 250mV Ro < 2k5 :DCC 250mV Ro < 2k5 :Process 250mV Ro < 2k5
Digital recorder selector:	
input	:impedance 75Ω :sensitivity 200 ...500mV peak-peak
output	:impedance 75Ω :level 500mV peak-peak into 75Ω load
bitrate	:2...3MBit/sec
input type	:unbalanced
output type	:unbalanced
Damping factor	:≥70% at 1kHz 8Ω Load
Remote Control	:RC5 input 1xcinch (orange) :Enhanced easylink 2xcinch (green)

CONTROLS



		Pos.nr.
1)	Standby + acknowledge led	D6648
	Power off/standby button	1525
2)	Source sel.knob + Mag.Touch	1605
3)	Bass knob	3651
4)	Treble knob	3652
5)	Display window and indication led	
	Digital source indication window	1620
	CD indication window	1624
	CD record source led (red)	D6642
	DCC indication window	1621
	DCC record source led (red)	D6643
	TV/AUX indication window	1626
	TV/AUX record source led (red)	D6644
	Tuner indication window	1623
	Tuner record source led (red)	D6645
	Phono indication window	1622
	Phono record source led (red)	D6646
	Tape indication window	1625
	Tape record source led (red)	D6647
6)	Balance knob	3603
7)	Volume knob	3601
8)	Fuzzy Power control Led	D6687
9)	Headphone	1601
10)	Mute button + Red indic.led	1611 + D6640
11)	Loudness button + Red indic.led	1608 + D6635
12)	Source direct but. + Red indic.led	1606 + D6636
13)	Rec.sel.button + Red indic.led	1612 + D6641
14)	Auto-select button + Red indic.led	1607 + D6639
15)	Speakers B-button + Red indic.led	1609 + D6638
16)	Speakers A-button + Red indic.led	1610 + D6637
17)	IR-receiver eye	6700

CONNECTIONS



			Pos.nr.
A)	Phono	input	1401
B)	Phono	ground	
C)	CD	input	1401
D)	TV/AUX/VCR	input	1401
	VCR	output	1401
E)	Tape	input	1402
	Tape	output	1402
F)	DCC	input	1402
	DCC	output	1402
G)	Tuner	input	1403
H)	Processor	in	1403
	Processor	out	1403
I)	DSR digital	input	1478
J)	CD digital	input	1478
K)	AUX digital input		1478
L)	DCC digital output		1478
M)	Easy link	Bus	1261
	RC 5	Bus	1262
N)	Speaker system A Right		1264
	Speaker system A Left		1264
	Speaker system B Right		1263
	Speaker system B Left		1263
O)	Switched AC outleds		1926-27-28
P)	Fixed mainscord		1532
Q)	Voltage selector (for/01 only)		

SERVICE TEST PROGRAM

μ Processor Test

The test can be called up by pressing the keys Loudness and mute at te same time when te amplifier is switched on.The lamps and leds will automatically light up in order,as shown on fig 1 from step A to F .

One second after the last source indication has been selected the volume volume knob turns for about 1 seconds right and then 1 seconds left to check if the volume control works.After the volume check a eeprom check is started.This is done by simulating a powerdown,all leds ands lamps are switched off and a number of setting is stored and recalled from the eeprom.Whem after 0,2 seconds the magic touch is used to wake up the amplifier,the amplifier will come up with the setting step G see fig 1

If this is not the case check eeprom or μ processor.

FIG 1

Steps	A	B	C	D	E	F	G
Lamps							
CD	on	off	off	off	off	off	off
DCC	off	on	off	off	off	off	off
TV/AUX	off	off	on	off	off	off	off
TUNER	off	off	off	on	off	off	off
PHONO	off	off	off	off	on	off	off
TAPE	off	off	off	off	off	on	on
Record Out Selector Leds							
CD	off	off	off	off	off	on	off
DCC	off	off	off	off	on	off	off
TV/AUX	off	off	off	on	off	off	off
TUNER	off	off	on	off	off	off	off
PHONO	off	on	off	off	off	off	off
TAPE	on	off	off	off	off	off	on
Source Leds							
St/BY	on	off	on	off	on	off	off
Speak.A	off	on	off	on	off	on	on
Speak.B	on	off	on	off	on	off	off
Auto sel	off	on	off	on	off	on	on
Rec.sel	on	off	on	off	on	off	off
Sour.Dir.	off	on	off	on	off	on	on
Loudness	on	off	on	off	on	off	off
Mute	off	on	off	on	off	on	on

GB

Safety regulations require thatthe set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizione originali e che iano utilizzati pezzi di ricambiago identici a quelli specificati.

F

Les normes de sécurité exigent que lappareil soit remis à létat d'origine et que soient utilisées les pieces de rechange identiques à celles spécifiées.

Pour votre sécurité, ces documents doivent etre utilisés par des specialistes agrées, seuls habilités à réparer votre appareil en panne.

Quiescent Current

SK.... SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSILLOSCOPE	D.C.METER INDICATOR
STAND - BY			Min.	L ch R 3285		L ch. ◇1 ◇2 DC 35 mV
				R ch. R 3284		R ch. ◇3 ◇4 DC 35 mV

- Check for good thermal contact between power transistor and heatsink.
- Mains Voltage 230V ±5%
- Ambient themperature =20° ± 5° and heatsink must be atambient temperature.
- Set volume position to minimum.
- Place the set in stand-by position.
- Trimpotmeter in clock wize position.
- The adjustment must be finished for both channels 30sec after power on.

GB WARNING

All IC$_s$ and many other semi conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.When reparing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

NL WAARSCHUWING

Alle ICs en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD)
Onzorgvuldig behandelen tijden reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat U tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

D WARNUNG

Alle IC$_s$ und viele andere Halbleiter sind empfindlich gegenüber electrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im - Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

F ATTENTION

Tous les IC e beaucoup d'autre semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrair etre considérablement écourtée par le fait qu'aucune precaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien etre relié au meme potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller á ce que les composants ainsi que les outils que l'on utilise soient égalemment á ce potentiel.

I AVERTIMENTO

Tutti IC e parecchi semiconduttori sono sensibili alle scariche statiche. (ESD)
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

SERVICE HINTS

µProcessor pinning IC 7650

1	Reset	Reset
2	IRQ	RC-5
3	VPP	+5V
4	PA7	Standby led
5	PA6	Lamp CDR/AUX
6	PA5	Mute amplifier
7	PA4	Standby amplifier
8	PA3	Volume up
9	PA2	Keyboard scan line 3
10	PA1	Keyboard scan line 2
11	PA0	Keyboard scan line 1
12	PB0	Keyboard return line 3
13	PB1	Keyboard return line 2
14	PB2	Keyboard return line 1/Data-out eeprom
15	PB3	Volume down
16	PB4	Data in eeprom/Data shiftregisters
17	PB5	Clock eeprom/Clock shiftregisters
18	PB6	CS eeprom
19	PB7	Strobe shiftregisters
20	GND	Ground
21	PC7	Lamp PHONO
22	PC6	Lamp TAPE
23	PC5	Lamp CD
24	PC4	Lamp DCC
25	PC3	CE2 analog/digital selector
26	PC2	Clock analog/digital selector
27	PC1	Data analog/digital selector
28	PC0	CE1 analog
29	PD0	Autoprotect line
30	PD1	Sence rotary knob
31	PD2	Rotary line 1
32	PD3	Rotary line 2
33	PD4	Powerdown/Option line 2
34	PD5	Powerdown/Option line 1
35	TCMP	EasyLink output
36	PD7	EasyLink input
37	TCAP	EasyLink input
38	OSC2	4 MHz crystal
39	OSC1	4 MHz crystal
40	VCC	+ 5V

Fuzzy Logic Power Control

The fuzzy logic power controller checks the output power level continuously.
If very high power levels are delivered over a prolonged period, the fuzzy logic power controller Led starts blinking. The controller regulates the power level by adjusting the volume level step by step. If necessary,this is repeated several times until an acceptable power level is reached. If a very high power level is sustained for too long,the fuzzy logic power controller activates a mute of 20dB.

Working description of Fuzzy Logic Power Control:

High power output levels are detected over the 0,1 ohm sensing resistors (R3384/R3385/R3387)in the high voltage supply lines.
High current peaks,especially at low impedanees,are also sensed by the base - emitter of transistor 7290 for positive going signals and transistor 7291 for the negative going signals. The collector current of transistor 7290 is a measure of output power and charges C2687. This capacitor is discharged by resistor R3687.
If the charge current is higher than the discharging, pin 1 of the inverter Ic7685 goes high.This forces pin 29 of the µP7650 high.
The µP now has an algorithm to activate the volume motor which turns the volume potmeter down for a certain time.This volume correcting timing,defined in the software algorithm, depends on the voltage of capacitor 2687.During the control process led 6687 flashes at a rate of two times per seconds.

Testing of the Fuzzy Logic working:

Connect 8 ohms load resistors to speaker A therminals.
Turn up the volume to a power of ±2X60 Watt (±22V). Around this power the Fuzzy Logic control will start to work,you can recognise this when the Fuzzy Logic led starts to blink. It can also be measured on pin 29 of µP 7650, this goes from normal low to high.
When pin 29 goes high and stays this way,the µP 7650 starts its intern timing cycle.
After 12 minutes,the volume will turn itself back a little.
The total cycle would be,on condition that pin 29 stays high, as following:

On the 12th minute step down volume
On the 16th minute step down volume
On the 20th minute step down volume
On the 22th minute the mute switches on.

This situation should normally never occur,the reason herefor is,that with the first volume step back(down),the power isn't 2X60W any more,and thees pin 29 is low again.

Reprogramming of TV and Laser Disc source allocation:

The TV or Laser Disc inputs are allocated to the TV/AUX source. You can change the TV and LD source allocation as follows.
Changing the Laser disc source allocation:
- Keep the SOURCE DIRECT key 12 pressed while switching on the power. The TV/AUX indication (or the source to which LD is currently allocated) starts blinking.
- Select an other location with the source select knob.The selected source indication lights up on the display.
- Store your selection by pressing the RECORDING SELECTOR key 13.
- The amplifier returns to normal active mode.

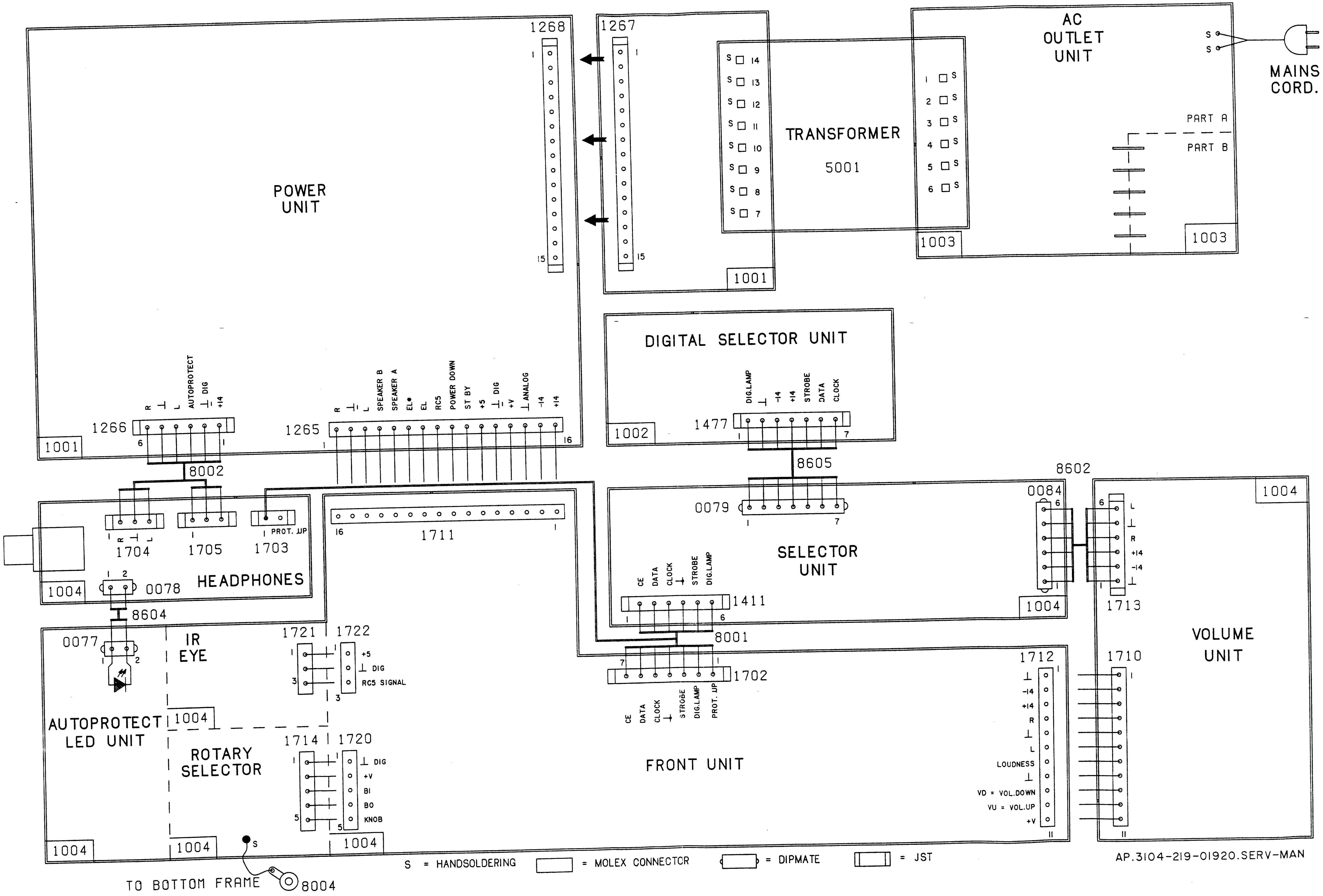
Changing the TV source allocation:
- Keep the AUTO SELECT key 14 pressed while switching on the power. The TV/AUX indication (or the source to which TV is currently allocated) starts blinking.
- Select an other location with the source select knob.The selected source indication lights up on the display.

- Store your selection by pressing the RECORDING SELECTOR key 13.
- The amplifier returns to normal active mode.

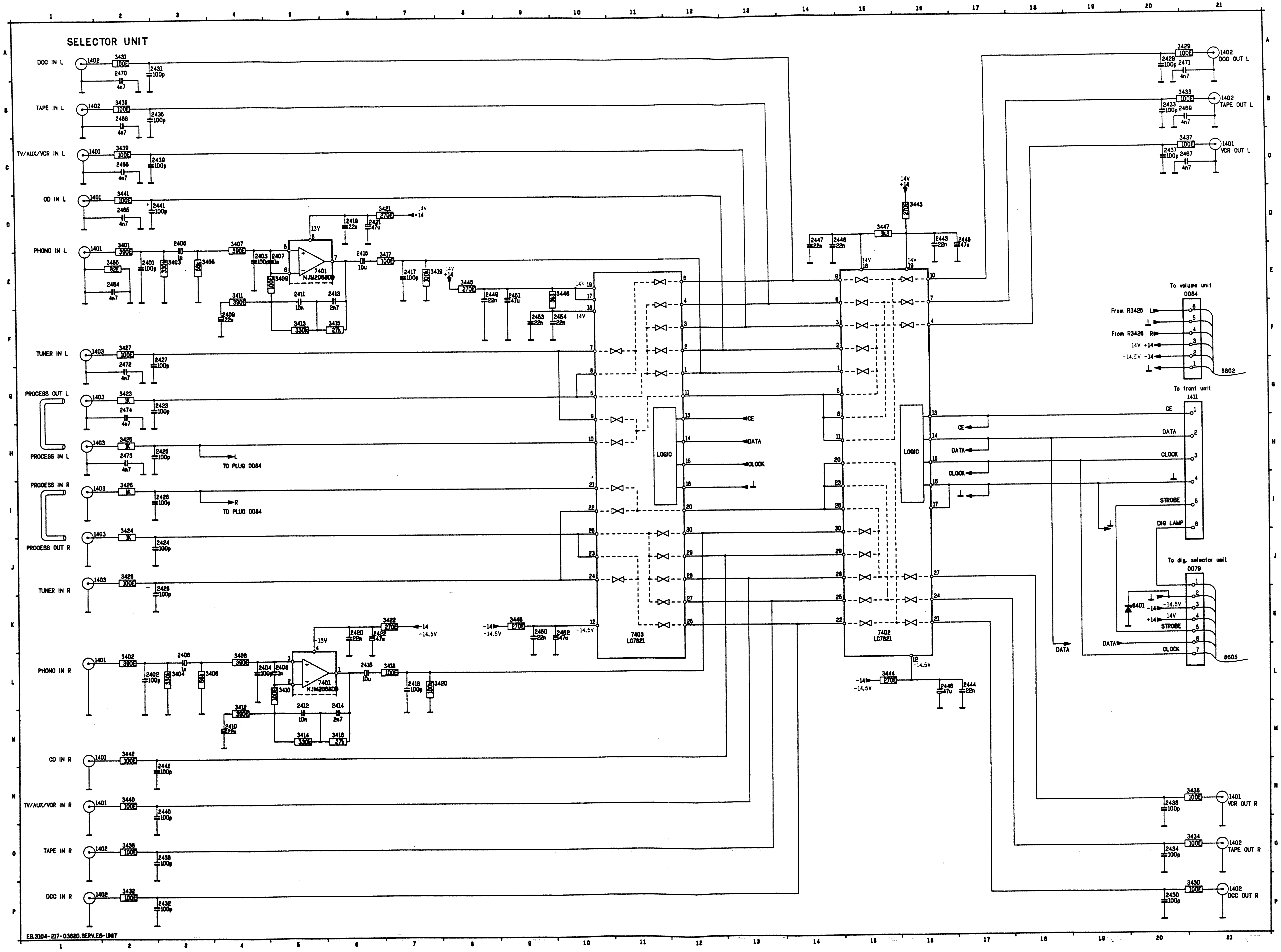
Notes:

-Any source except PHONO can be allocated to TV or LD.
-When TV and/or LD are allocated to another source,the original source cannot be selected by the remote control.

WIRING DIAGRAM

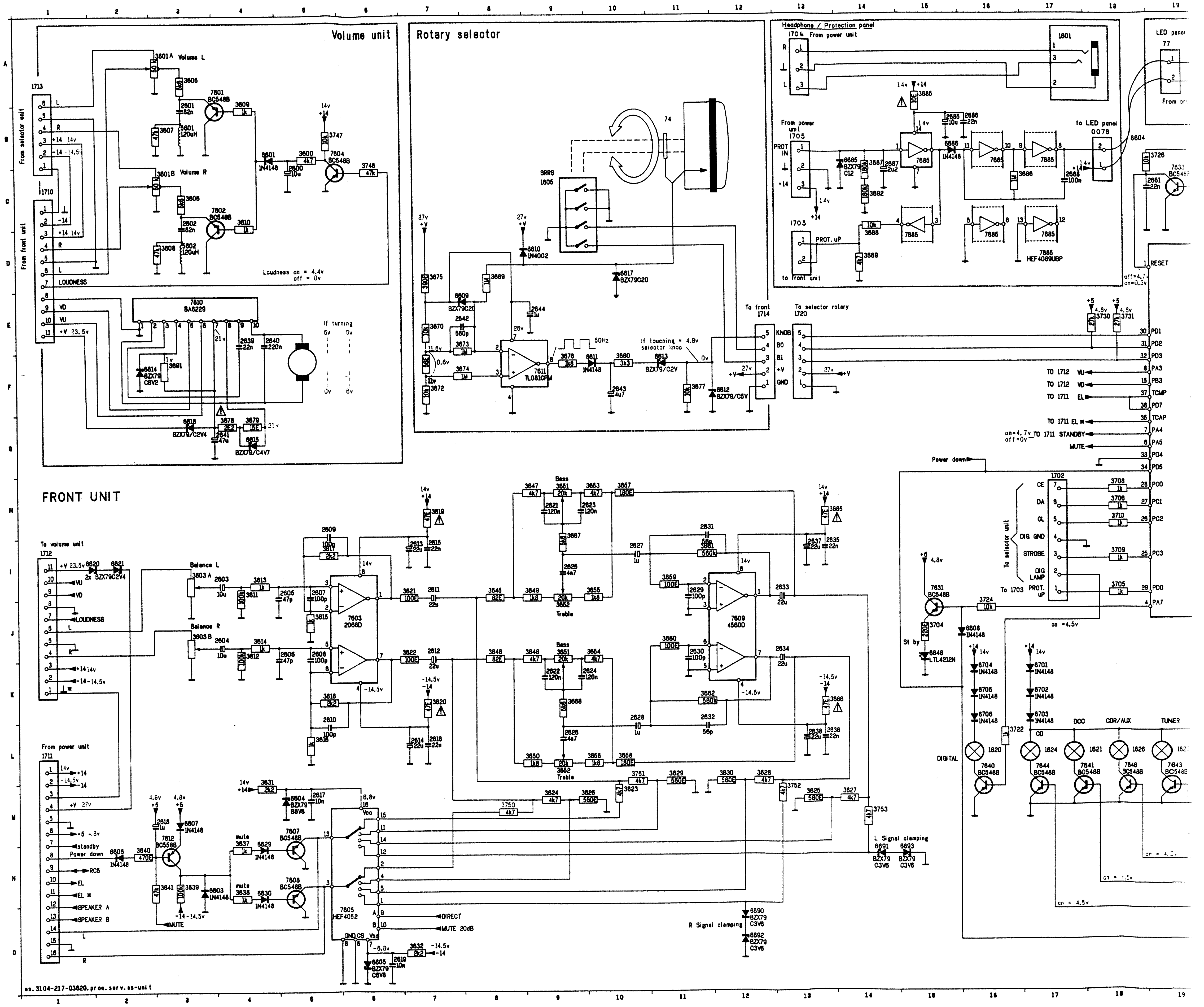

POWER UNIT
1268
1267
1001
1266
1265
R ⊥ L AUTOPROTECT ⊥ DIG +14
R ⊥ L SPEAKER B SPEAKER A EL* EL RC5 POWER DOWN ST BY +5 ⊥ DIG +V ⊥ ANALOG -14 +14
8002
TRANSFORMER
5001
AC OUTLET UNIT
1003
MAINS CORD.
PART A
PART B
DIGITAL SELECTOR UNIT
1002
1477
DIG.LAMP ⊥ -14 +14 STROBE DATA CLOCK
8605
8602
0084
0079
SELECTOR UNIT
1411
CE DATA CLOCK ⊥ STROBE DIG.LAMP
1004
1713
L ⊥ R +14 -14 ⊥
VOLUME UNIT
1710
HEADPHONES
1704
1705
1703
PROT. UP
0078
8604
1711
0077
IR EYE
AUTOPROTECT LED UNIT
1721
1722
+5 ⊥ DIG RC5 SIGNAL
ROTARY SELECTOR
1714
1720
⊥ DIG +V BI BO KNOB
8001
1702
CE DATA CLOCK ⊥ STROBE DIG.LAMP PROT. UP
FRONT UNIT
1712
⊥ -14 +14 R ⊥ L LOUDNESS ⊥ VD = VOL.DOWN VU = VOL.UP +V
TO BOTTOM FRAME
8004
S = HANDSOLDERING
= MOLEX CONNECTOR
= DIPMATE
= JST
AP.3104-219-01920.SERV-MAN

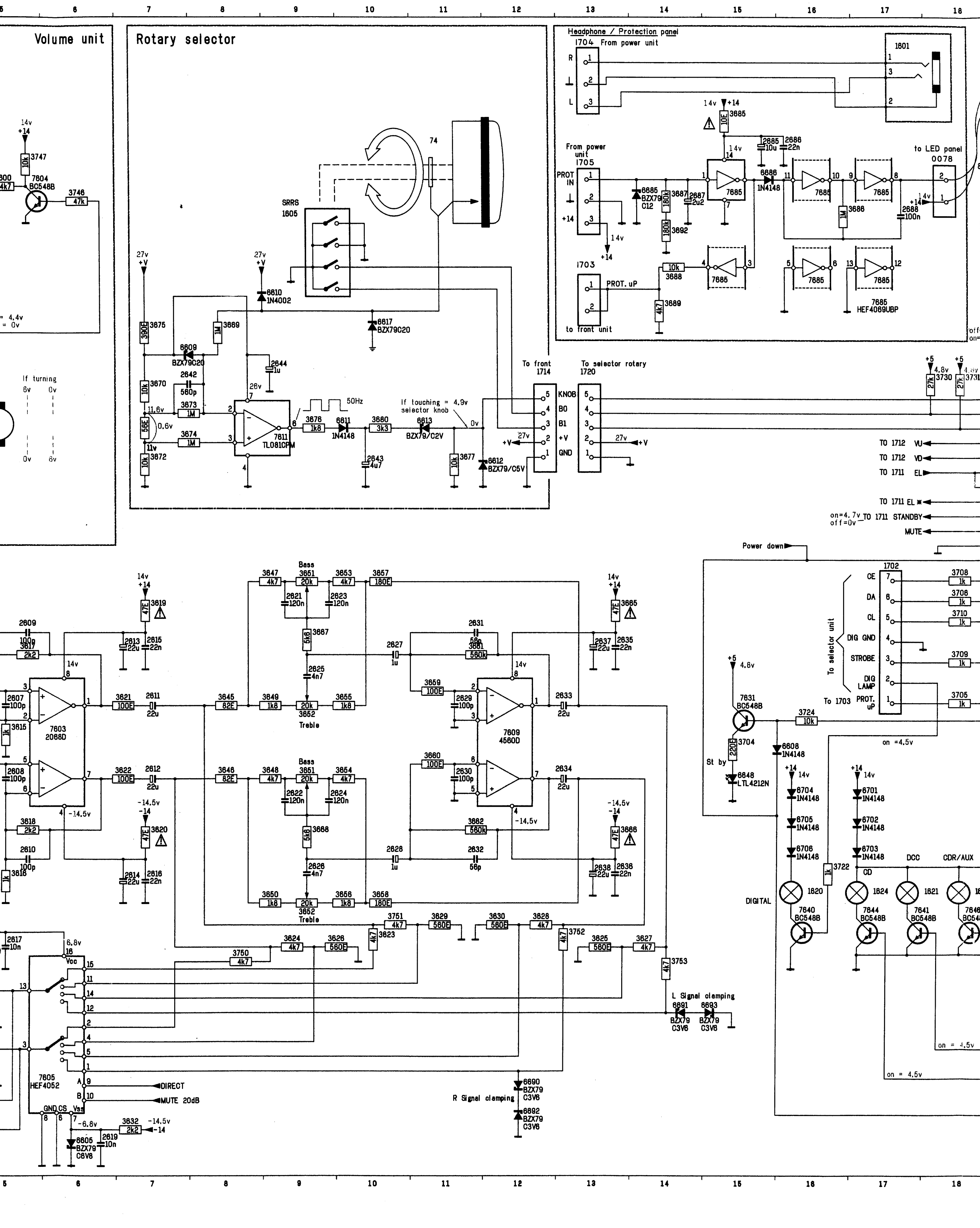
SELECTOR DIAGRAM

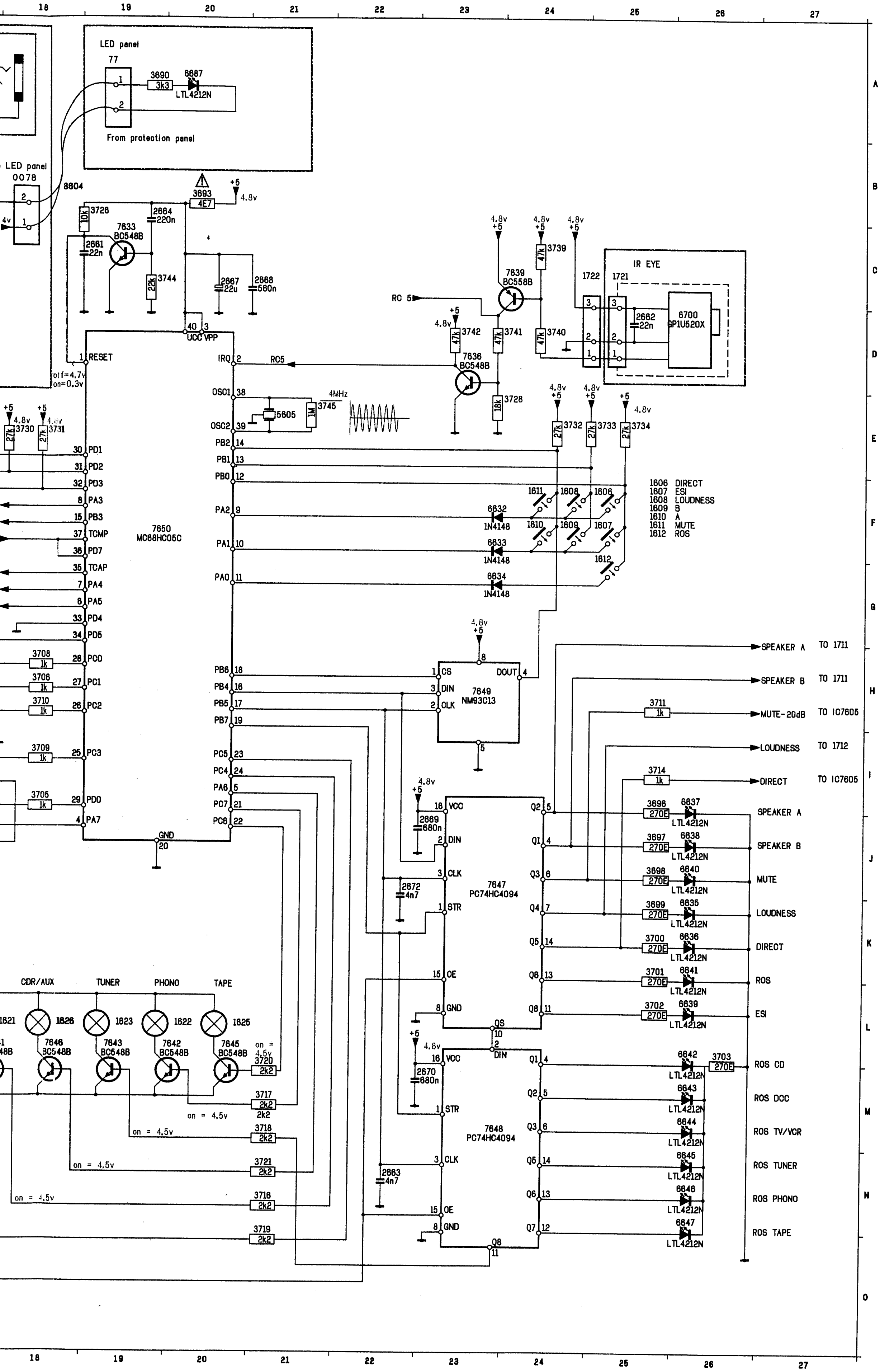

SELECTOR UNIT
DCC IN L
TAPE IN L
TV/AUX/VCR IN L
CD IN L
PHONO IN L
TUNER IN L
PROCESS OUT L
PROCESS IN L
PROCESS IN R
PROCESS OUT R
TUNER IN R
PHONO IN R
CD IN R
TV/AUX/VCR IN R
TAPE IN R
DCC IN R
DCC OUT L
TAPE OUT L
VCR OUT L
VCR OUT R
TAPE OUT R
DCC OUT R
7401
NJM2068D
7403
LC7821
7402
LC7821
LOGIC
LOGIC
CE
DATA
CLOCK
TO PLUG 0084
To volume unit
0084
From R3425 L
From R3426 R
14V +14
-14.5V -14
8602
To front unit
1411
STROBE
DIG LAMP
To dig. selector unit
0079
6401
8605
ES.3104-217-03620.SERV.ES-UNIT

■■■■	A21
■■■■	B21
■■■■	C21
■■■■	N21
■■■■	O21
■■■■	P21
1401	C1
1401	C21
1401	D1
1401	D1
1401	L1
1401	M1
1401	N1
1401	N21
1402	A1
1402	A21
1402	B1
1402	B21
1402	O1
1402	O21
1402	P1
1402	P21
1403	F1
1403	G1
1403	H1
1403	I1
1403	I1
1403	J1
2401	E2
2402	L2
2403	E4
2404	L4
2405	D3
2406	L3
2407	E5
2408	L5
2409	F4
2410	M4
2411	E5
2412	L5
2413	E6
2414	L6
2415	E6
2416	L6
2417	E7
2418	L7
2419	D6
2420	K6
2421	D6
2422	K6
2423	G3
2424	J3
2425	H3
2426	I3
2427	F3
2428	J3
2429	A20
2430	P20
2431	A3
2432	P3
2433	B20
2434	O20
2435	B3
2436	O3
2437	C20
2438	N20
2439	C3
2440	N3
2441	D3
2442	N3
2443	D16
2444	L17
2445	D17
2446	L16
2447	D14
2448	D14
2449	E8
2450	K9
2451	E9
2452	K10
2453	F9
2454	F10
2464	E2
2465	D2
2466	C2
2467	C21
2468	B2
2469	B21
2470	A2
2471	A21
2472	F2
2473	H2
2474	G2
3401	D2
3402	L2
3403	E3
3404	L3
3405	E3
3406	L3
3407	D4
3408	L4
3409	E5
3410	L5
3411	E4
3412	M4
3413	F5
3414	M5
3415	F6
3416	M6
3417	E7
3418	L7
3419	E7
3420	L7
3421	D7
3422	K7
3423	G2
3424	I2
3425	H2
3426	I2
3427	F2
3428	J2
3429	A21
3430	P21
3431	A2
3432	P2
3433	B21
3434	O21
3435	B2
3436	O2
3437	C21
3438	N21
3439	C2
3440	N2
3441	D2
3442	M2
3443	D16
3444	L15
3445	E8
3446	K9
3447	D15
3448	E10
3455	E2
6401	K20
7401	E5
7401	L5
7402	K15
7403	K11

FRONT DIAGRAM
VOLUME DIAGRAM
ROTARY SELECTOR DIAGRAM

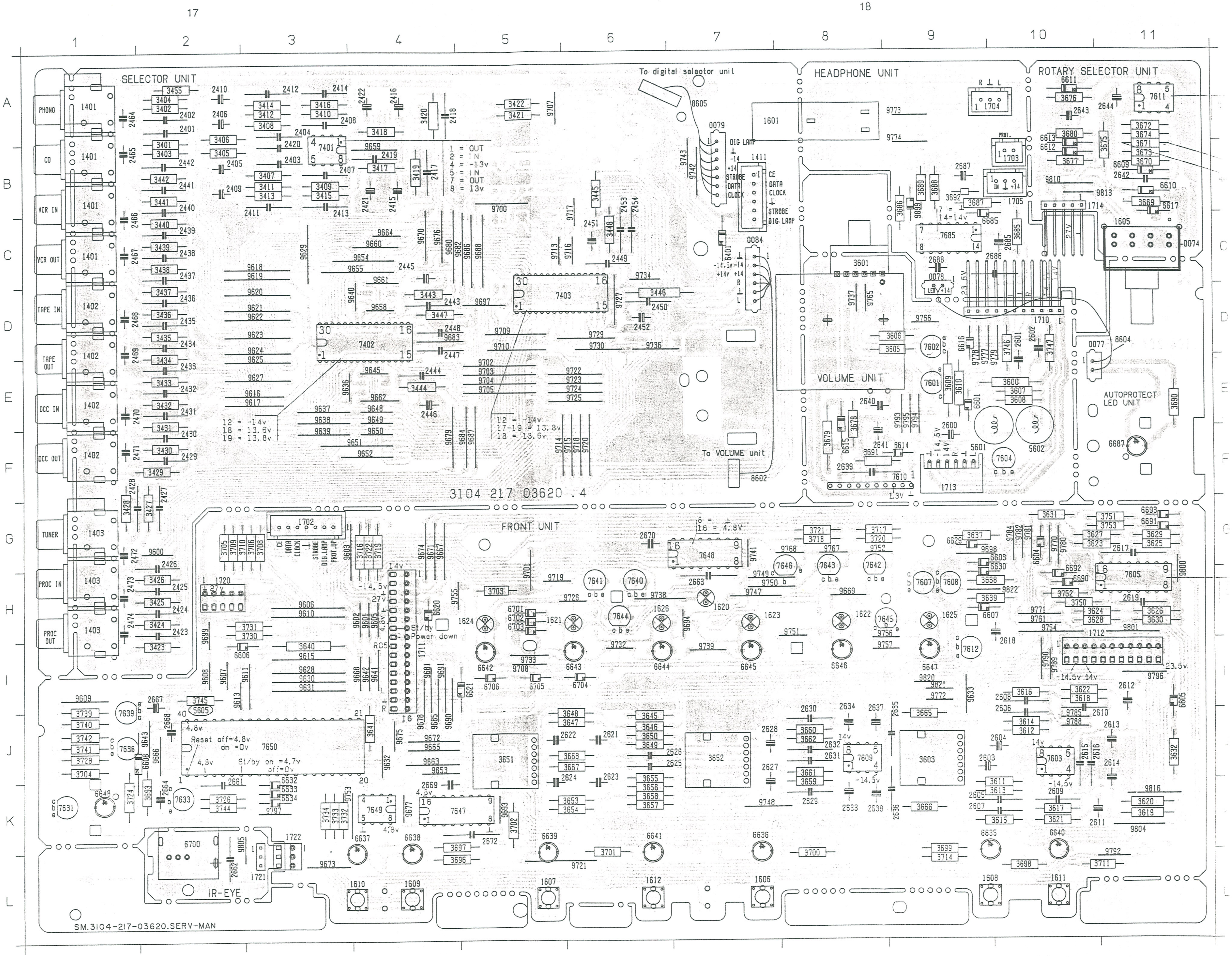

Volume unit
Rotary selector
Headphone / Protection panel
LED panel
FRONT UNIT
3601A Volume L
3601B Volume R
7601 BC548B
7602 BC548B
7604 BC548B
7610 BA6229
1713
1710
From selector unit
From front unit
LOUDNESS
Loudness on = 4.4v off = 0v
If turning
SRRS 1605
74
7611 TL081CPM
50Hz
if touching = 4.9v selector knob
To front 1714
To selector rotary 1720
KNOB
1704 From power unit
1801
From power unit 1705
PROT IN
1703
PROT. uP
to front unit
7685 HEF4069UBP
to LED panel 0078
RESET
TO 1712 VU
TO 1712 VD
TO 1711 EL
TO 1711 EL
TO 1711 STANDBY
MUTE
Power down
To volume unit 1712
Balance L
Balance R
7603 2068D
7609 4560D
Bass
Treble
1702
CE
DA
CL
DIG GND
STROBE
DIG LAMP
PROT. uP
To selector unit
To 1703
7631 BC548B
St by
6848 LTL4212N
DIGITAL
CD
DCC
CDR/AUX
TUNER
1820
1824
1821
1826
7640 BC548B
7644 BC548B
7641 BC548B
7646 BC548B
7643 BC548B
From power unit 1711
Standby
Power down
RC5
SPEAKER A
SPEAKER B
MUTE
7605 HEF4052
DIRECT
MUTE 20dB
L Signal clamping
R Signal clamping
7612 BC558B
7607 BC548B
7608 BC548B
mute
es.3104-217-03620.proc.serv.ss-unit

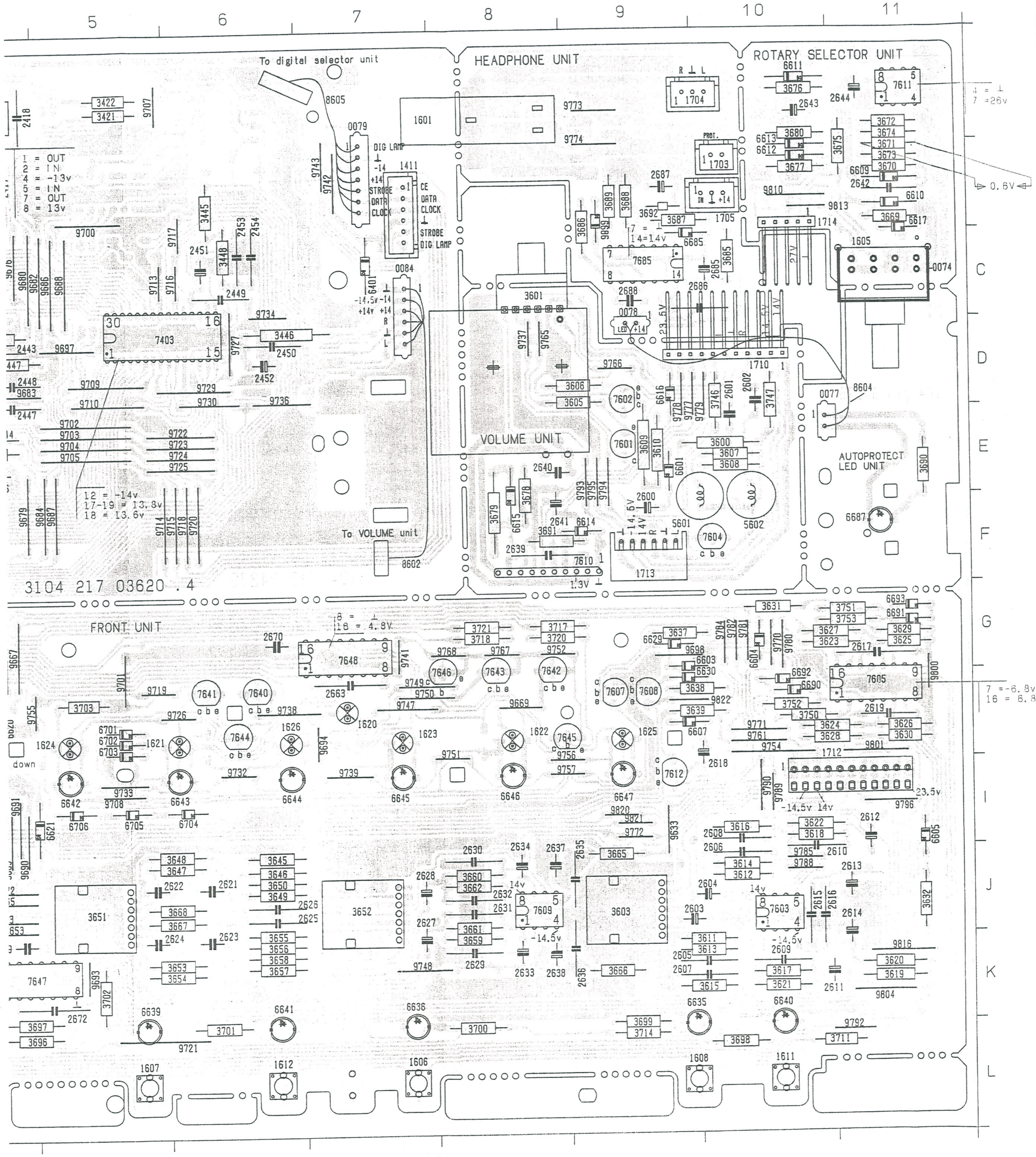

Volume unit
Rotary selector
Headphone / Protection panel
1704 From power unit
1601
From power unit 1705
PROT IN
to LED panel 0078
1703
PROT. uP
to front unit
7685 HEF4069UBP
3685 10E
6686 1N4148
6685 BZX79 C12
3686 1M
2688 100n
3688 10k
3689 4k7
7604 BC548B
3747 10k
3746 47k
= 4.4v
= 0v
If turning
6v 0v
0v 6v
SRRS 1605
74
6610 1N4002
6617 BZX79C20
3675 390E
3669 1M
6609 BZX79C20
2642 560p
2644 1u
3670 10k
3673 1M
3674 1M
3672 10k
56E
7611 TL081CPM
50Hz
3676 1k8
6611 1N4148
3680 3k3
If touching = 4.9v selector knob
6613 BZX79/C2V
2643 4u7
3677 10k
6612 BZX79/C5V
To front 1714
To selector rotary 1720
KNOB
B0
B1
+V
GND
TO 1712 VU
TO 1712 VD
TO 1711 EL
TO 1711 EL*
on=4.7v off=0v TO 1711 STANDBY
MUTE
Power down
3730
3731
1702
CE
DA
CL
DIG GND
STROBE
DIG LAMP
PROT. uP
To selector unit
To 1703
3708 1k
3706 1k
3710 1k
3709 1k
3705 1k
7631 BC548B
3724 10k
3704 220E
St by
6648 LTL4212N
6608 1N4148
on =4.5v
6704 1N4148
6705 1N4148
6706 1N4148
6701 1N4148
6702 1N4148
6703 1N4148
3722 1k
DIGITAL
1820
7640 BC548B
CD
1824
7644 BC548B
DCC
1821
7641 BC548B
CDR/AUX
on = 4.5v
2609 100p
3617 2k2
2607 100p
3615 1k
7603 2068D
2608 100p
3618 2k2
2610 100p
3616 1k
3619 47E
2613 22u
2615 22n
3620 47E
2614 22u
2616 22n
3621 100E
2611 22u
3622 100E
2612 22u
Bass
Treble
3645 82E
3646 82E
3647 4k7
3651 20k
3653 4k7
3657 180E
2621 120n
2623 120n
3667 5k6
2625 4n7
3649 1k8
3652 20k
3655 1k8
3648 4k7
3654 4k7
2622 120n
2624 120n
3668 5k6
2626 4n7
3650 1k8
3656 1k8
3658 180E
2627 1u
2631 56p
3661 560k
3659 100E
2629 100p
7609 4560D
3660 100E
2630 100p
3662 560k
2628 1u
2632 56p
2633 22u
2634 22u
3665 47E
2637 22u
2635 22n
3666 47E
2638 22u
2636 22n
3751 4k7
3629 560E
3630 560E
3628 4k7
3623 4k7
3752 4k7
3624 4k7
3626 560E
3750 4k7
3625 560E
3627 4k7
3753 4k7
L Signal clamping
6691 BZX79 C3V6
6693 BZX79 C3V6
R Signal clamping
6690 BZX79 C3V6
6692 BZX79 C3V6
2617 10n
6.8v
Vcc
7605 HEF4052
DIRECT
MUTE 20dB
GND CS Vss
-6.8v
3632 2k2
-14.5v
6605 BZX79 C6V8
2619 10n


18
19
20
21
22
23
24
25
26
27
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
LED panel
77
3690
3k3
6687
LTL4212N
From protection panel
LED panel
0078
8604
3693
4E7
+5
4.8v
3726
10k
2664
220n
7633
BC548B
2661
22n
3744
22k
2667
22u
2668
560n
40
3
UCC VPP
1 RESET
off=4.7v
on=0.3v
IRQ 2
RC5
OSC1 38
OSC2 39
5605
3745
1M
4MHz
PB2 14
PB1 13
PB0 12
PA2 9
PA1 10
PA0 11
30 PD1
31 PD2
32 PD3
8 PA3
15 PB3
37 TCMP
36 PD7
35 TCAP
7 PA4
6 PA5
33 PD4
34 PD5
28 PC0
27 PC1
26 PC2
25 PC3
29 PD0
4 PA7
3708
3706
3710
3709
3705
1k
3730
3731
27k
7650
MC68HC05C
GND
20
PB6 18
PB4 16
PB5 17
PB7 19
PC5 23
PC4 24
PA6 5
PC7 21
PC6 22
RC 5
7639
BC558B
3739
47k
3742
3741
3740
7636
BC548B
3728
18k
1722
1721
IR EYE
2662
22n
6700
SP1U520X
3732
3733
3734
1606 DIRECT
1607 ESI
1608 LOUDNESS
1609 B
1610 A
1611 MUTE
1612 ROS
6632
6633
6634
1N4148
CS
DIN
CLK
DOUT
7649
NM93C13
SPEAKER A
SPEAKER B
MUTE-20dB
LOUDNESS
DIRECT
TO 1711
TO 1711
TO IC7605
TO 1712
TO IC7605
3711
3714
VCC
DIN
CLK
STR
OE
GND
QS
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
2669
680n
2672
4n7
7647
PC74HC4094
3696
3697
3698
3699
3700
3701
3702
270E
6637
6638
6640
6635
6636
6641
6639
SPEAKER A
SPEAKER B
MUTE
LOUDNESS
DIRECT
ROS
ESI
2670
680n
7648
PC74HC4094
2663
4n7
6642
6643
6644
6645
6646
6647
3703
270E
ROS CD
ROS DCC
ROS TV/VCR
ROS TUNER
ROS PHONO
ROS TAPE
CDR/AUX
TUNER
PHONO
TAPE
1621
1626
1623
1622
1625
7646
7643
7642
7645
BC548B
on = 4.5v
3720
3717
3718
3721
3716
3719
2k2

1601	A17
1606	F25
1607	F25
1608	F24
1609	F24
1610	F24
1611	F24
1612	G25
1620	L16
1621	L18
1622	L20
1623	L19
1624	L17
1625	L20
1626	L18
1702	H17
1714	E12
1720	E13
2600	C5
2601	B3
2602	C3
2603	I4
2604	J4
2605	I5
2606	J5
2607	I5
2608	J5
2609	H5
2610	K5
2611	I7
2612	J7
2613	I7
2614	L7
2615	I7
2616	L7
2617	M5
2618	M3
2619	O6
2621	H9
2622	K9
2623	H9
2624	K9
2625	I9
2626	L9
2627	I10
2628	K10
2629	I11
2630	J11
2631	H11
2632	K11
2633	I13
2634	J13
2635	I13
2636	L13
2637	I13
2638	L13
2639	E4
2640	E4
2641	G4
2642	E8
2643	F10
2644	E9
2661	C19
2662	D25
2663	N22
2664	B19
2667	C20
2668	C21
2669	J23
2670	M23
2672	J22
2685	B15
2686	B16
2687	C14
2688	C17
3600	B5
3605	A3
3606	C3
3607	B3
3608	D3
3609	B4
3610	C4
3611	I4
3612	J4
3613	I4
3614	J4
3615	J5
3616	L5
3617	I5
3618	K5
3619	H7
3620	K7
3621	I7
3822	J7
3623	M10
3624	M9
3625	M13
3626	M10
3627	M14
3628	L12
3629	L11
3630	L12
3631	M4
3632	O7
3637	N4
3638	N4
3639	N3
3640	N2
3641	N3
3645	I8
3646	J8
3647	H9
3648	J9
3649	I9
3650	L9
3651	H9
3651	J9
3652	J9
3652	L9
3653	H10
3654	J10
3655	I10
3656	L10
3657	H10
3658	L10
3659	I11
3660	J11
3661	I11
3662	K11
3665	H13
3666	K13
3667	I9
3668	K9
3669	D8
3670	E7
3671	F7
3672	F7
3673	E8
3674	F8
3675	D7
3676	F9
3677	F11
3678	G4
3679	G4
3680	F10
3685	A15
3686	C16
3687	C14
3688	D14
3689	D14
3690	A19
3691	F3
3692	C14
3693	B20
3696	I25
3697	J25
3698	J25
3699	K25
3700	K25
3701	K25
3702	L25
3703	L26
3704	J15
3705	I18
3706	H18
3708	H18
3709	I18
3710	H18
3711	H25
3714	I25
3716	N21
3717	M21
3718	M21
3719	O21
3720	M21
3721	N21
3722	L16
3724	J16
3726	B19
3728	E23
3730	E18
3731	E18
3732	E24
3733	E25
3734	E25
3739	C24
3740	D24
3741	D23
3742	D23
3744	C19
3745	E21
3746	C6
3747	B5
3750	M8
3751	L10
3752	M13
3753	M14
5605	E21
6601	B4
6603	N3
6604	M5
6605	O6
6606	N2
6607	M3
6608	J16
6609	E8
6610	D9
6611	F10
6612	F12
6613	F11
6615	G4
6616	G3
6617	D10
6620	I2
6621	I2
6629	N4
6630	N4
6632	F23
6633	F23
6634	G23
6635	K26
6636	K26
6637	I26
6638	J26
6639	L26
6640	J26
6641	K26
6642	L26
6643	M26
6644	M26
6645	N26
6646	N26
6647	N26
6648	J15
6685	B14
6686	B15
6687	A20
6690	O12
6691	N14
6692	O12
6693	N15
6700	D26
6701	K17
6702	K17
6703	K17
6704	K16
6705	K16
6706	K16
7601	A4
7602	C4
7603	J6
7604	B6
7605	O6
7607	M5
7608	N5
7609	J12
7610	E3
7611	F9
7612	M3
7631	I15
7633	C19
7636	D23
7639	C24
7640	L16
7641	L18
7642	L20
7643	L19
7644	L17
7645	L20
7646	L18
7647	J23
7648	M23
7649	H23
7650	F19
120uH	B3
120uH	D3

SELECTOR PCB
FRONT PCB
VOLUME PCB
HEADPHONE PCB
ROTARY PCB


17
18
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
SELECTOR UNIT
PHONO
CD
VCR IN
VCR OUT
TAPE IN
TAPE OUT
DCC IN
DCC OUT
TUNER
PROC IN
PROC OUT
1401
1402
1403
7401
7402
7403
1 = OUT
2 = IN
4 = -13v
5 = IN
7 = OUT
8 = 13v
12 = -14v
18 = 13.6v
19 = 13.8v
17-19 = 13.8v
18 = 13.6v
To digital selector unit
DIG LAMP
STROBE
DATA
CLOCK
CE
To VOLUME unit
HEADPHONE UNIT
1601
VOLUME UNIT
3601
ROTARY SELECTOR UNIT
7611
7685
1605
AUTOPROTECT LED UNIT
3104 217 03620 .4
FRONT UNIT
1702
DIG.LAMP
PROT.UP
St/by
Power down
RC5
7650
Reset off=4.8v
on =0v
St/by on =4.7v
off=0v
4.8v
7648
7647
7649
7609
7603
7605
3651
3652
3603
1712
-14.5v 14v
23.5v
IR-EYE
6700
1720
1721
1722
1610
1609
1607
1612
1606
1608
1611
SM.3104-217-03620.SERV-MAN



0074	C11
0077	D11
0078	C9
0079	A7
0084	C7
1401	A1
1401	B1
1401	B1
1401	C1
1402	D1
1402	D1
1402	E1
1402	F1
1403	G1
1403	H1
1403	H1
1411	B7
1601	A7
1605	C11
1606	L7
1607	L5
1608	L9
1609	L4
1610	L4
1611	L10
1612	L6
1620	H7
1621	H5
1622	H8
1623	H7
1624	H5
1625	H9
1626	H6
1702	G3
1703	B10
1704	A10
1705	B10
1710	D10
1711	I 4
1712	H10
1713	F9
1714	B11
1720	H2
1721	L3
1722	K3
2401	A2
2402	A2
2403	B3
2404	A3
2405	R2
2406	A2
2407	B3
2408	A4
2409	B2
2410	A2
2411	B3
2412	A3
2413	C3
2414	A3
2415	B4
2416	A4
2417	B4
2418	A5
2419	B4
2420	B3
2421	B4
2422	A4
2423	H2
2424	H2
2425	H2
2426	G2
2427	F2
2428	F1
2429	F2
2430	F2
2431	E2
2432	E2
2433	E2
2434	D2
2435	D2
2436	D2
2437	C2
2438	C2
2439	C2
2440	B2
2441	B2
2442	B2
2443	D4
2444	E4
2445	C4
2446	E4
2447	E4
2448	D4
2449	C6
2450	D6
2451	C6
2452	D6
2453	B6
2454	B6
2464	A1
2465	B1
2466	C1
2467	C1
2468	D1
2469	D1
2470	E2
2471	F1
2472	G1
2473	H1
2474	H1
2600	F9
2601	D10
2602	D10
2603	J9
2604	J10
2605	K9
2606	J10
2607	K9
2608	I 10
2609	K10
2610	J11
2611	K10
2612	I 11
2613	J11
2614	J11
2615	J10
2616	J10
2617	G11
2618	I 10
2619	H11
2621	J6
2622	J6
2623	J6
2624	K6
2625	J7
2626	J7
2627	J7
2628	J7
2629	K8
2630	J8
2631	J8
2632	J8
2633	K8
2634	J8
2635	J9
2636	K9
2637	J8
2638	K8
2639	F8
2640	E8
2641	F8
2642	B11
2643	A10
2644	A11
2661	K2
2662	L2
2663	H7
2664	K2
2667	I 2
2668	J2
2669	K4
2670	G6
2672	K5
2685	C10
2686	C10
2687	B9
2688	C9
3401	B2
3402	A2
3403	B2
3404	A2
3405	B2
3406	A2
3407	B3
3408	A3
3409	B3
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3413	B3
3414	A3
3415	B3
3416	A3
3417	B4
3418	A4
3419	B4
3420	A4
3421	A5
3422	A5
3423	I 2
3424	H2
3425	H2
3426	H2
3427	G2
3428	G1
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3430	F2
3431	F2
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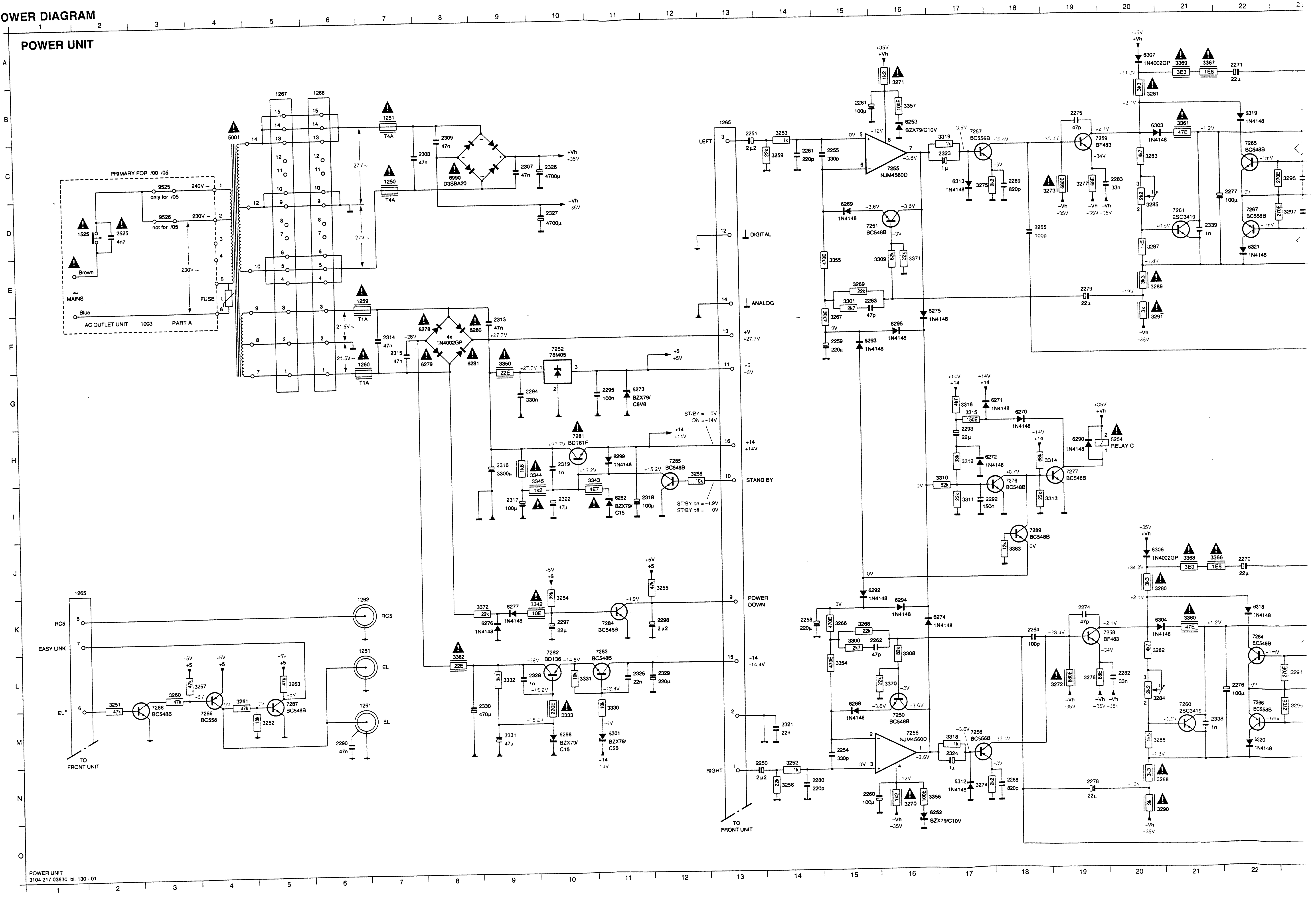
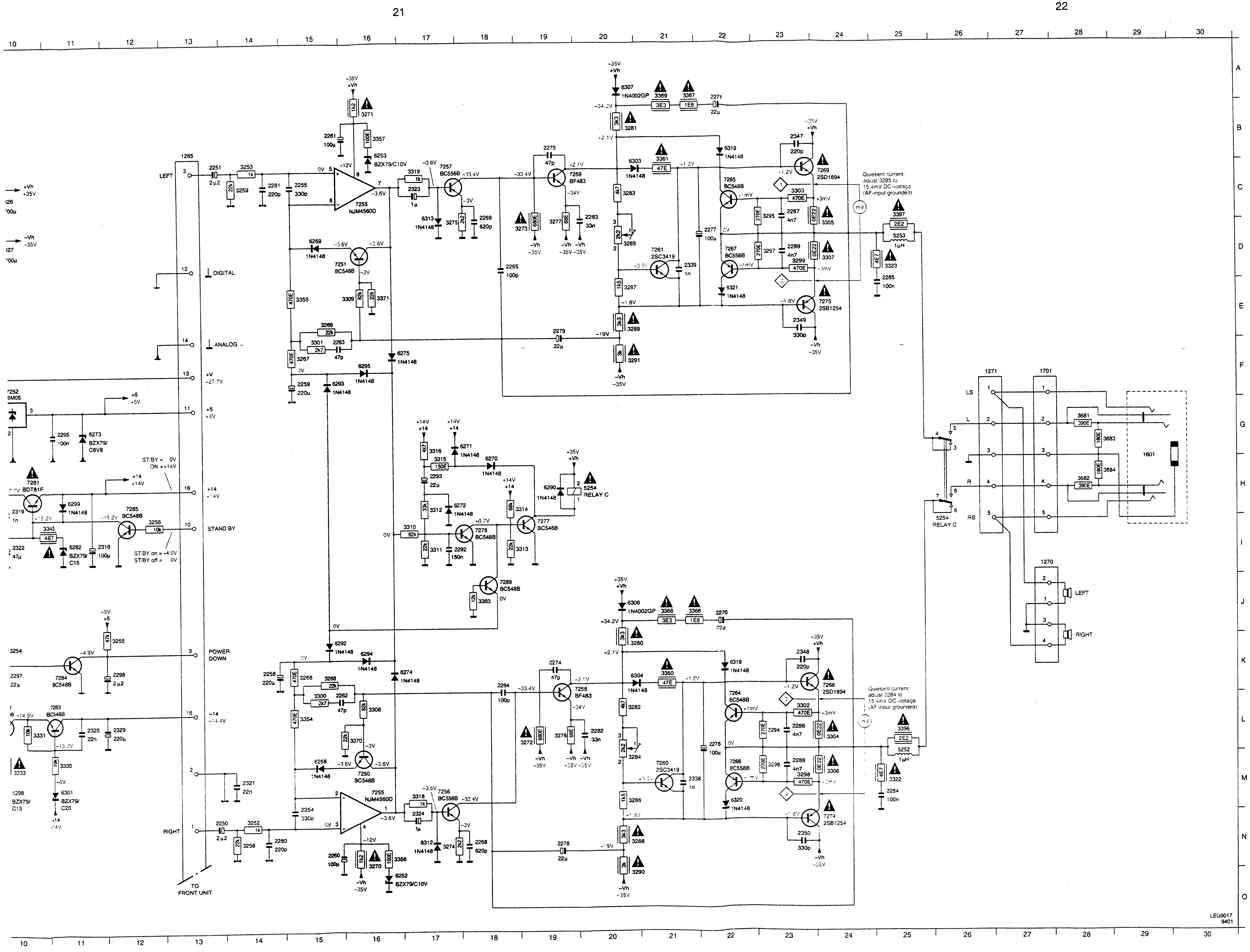
3434	E2
3435	D2
3436	D2
3437	D2
3438	C2
3439	C2
3440	C2
3441	B2
3442	B2
3443	D4
3444	E4
3445	B6
3446	D6
3447	D4
3448	C6
3455	A2
3600	E10
3601	C8
3603	J9
3605	D9
3606	D9
3607	E10
3608	E10
3609	E9
3610	E9
3611	K10
3612	J10
3613	K10
3614	J10
3615	K10
3616	I 10
3617	K10
3618	I 10
3619	K11
3620	K11
3621	K10
3622	I 10
3623	G10
3624	H10
3625	G11
3626	H11
3627	G10
3628	H10
3629	G11
3630	H11
3631	G10
3632	J11
3637	G9
3638	H9
3639	H9
3640	I 3
3641	J4
3645	J6
3646	J6
3647	J6
3648	J6
3649	J6
3650	J6
3651	J5
3652	J7
3653	K6
3654	K6
3655	K6
3656	K6
3657	K6
3658	K6
3659	K8
3660	J8
3661	J8
3662	J8
3665	J9
3666	K9
3667	J6
3668	J6
3669	B11
3670	B11
3671	B11
3672	A11
3673	B11
3674	A11
3675	B11
3676	A10
3677	B10
3678	E8
3679	F8
3680	A10
3685	C10
3686	B9
3687	B9
3688	B9
3689	B9
3690	E11
3691	F8
3692	B9
3693	K2
3696	L4
3697	K4
3698	L10
3699	L9
3700	L8
3701	L6
3702	K5
3703	H5
3704	J1
3705	G2
3706	G3
3708	G3
3709	G2
3710	G3
3711	L11
3714	L9
3716	G4
3717	G8
3718	G8
3719	G4
3720	G8
3721	G8
3722	G4
3724	K1
3726	K2
3728	J1
3730	H3
3731	H3
3732	K3
3733	K3
3734	K3
3739	J1
3740	J1
3741	J1
3742	J1
3744	K2
3745	I 2
3746	D10
3747	D10
3750	H10
3751	G11
3752	H10
3753	G11
5601	F9
5602	F10
5605	I 2
6401	C7
6601	E9
6603	G10
6604	G10
6605	I 11
6606	I 2
6607	H9
6608	J2
6609	B11
6610	B11
6611	A10
6612	B10
6613	B10
6614	F9
6615	F8
6616	D9
6617	B11
6620	H4
6621	I 5
6629	G9
6630	H10
6632	K3
6633	K3
6634	K3
6635	K9
6636	K7
6637	K4
6638	K4
6639	K5
6640	K10
6641	K6
6642	I 5
6643	I 6
6644	I 6
6645	I 7
6646	I 8
6647	I 9
6648	K1
6685	C10
6686	C9
6687	F11
6690	H10
6691	G11
6692	H10
6693	G11
6700	K2
6701	H5
6702	H5
6703	H5
6704	I 6
6705	I 5
6706	I 5
7401	B3
7402	D4
7403	D6
7601	E9
7602	D9
7603	J10
7604	F10
7605	H11
7607	H9
7608	H9
7609	J8
7610	F9
7611	A11
7612	I 9
7631	K1
7633	K2
7636	J1
7639	J1
7640	H6
7641	H6
7642	H8
7643	H8
7644	H6
7645	H8
7646	H8
7647	K4
7648	G7
7649	K4
7650	J3
7685	C9
8602	F7
8604	D11
8605	A7
9600	G2
9601	H4
9602	H4
9603	G3
9605	H4
9606	H3
9607	I 2
9608	I 2
9609	I 1
9610	H3
9611	I 3
9613	I 2
9615	I 3
9616	E3
9617	E3
9618	C3
9619	C3
9620	D3
9621	D3
9622	D3
9623	D3
9624	D3
9625	E3
9627	E3
9628	I 3
9629	C3
9630	I 3
9631	I 3
9632	J4
9633	I 9
9636	E3
9637	E3
9638	E3
9639	F3
9640	D4
9641	I 4
9642	I 4
9643	J2
9645	E4
9648	E4
9649	E4
9650	F4
9651	F4
9652	F4
9653	J4
9654	C4
9655	C4
9658	D4
9659	B4
9660	C4
9661	C4
9662	E4
9663	J4
9664	C4
9665	J4
9666	J2
9667	G4
9668	I 4
9669	H8
9670	C4
9671	G4
9672	J4
9673	L3
9674	G4
9675	J4
9676	C4
9677	K4
9678	J4
9679	F4
9680	C4
9681	I 4
9682	C5
9683	D4
9684	F5
9685	J4
9686	C5
9687	F5
9688	C5
9690	J4
9691	I 4
9693	K5
9694	H7
9697	D5
9698	G9
9699	H2
9700	B5
9701	H5
9702	E5
9703	E5
9704	E5
9705	E5
9707	A5
9708	I 5
9709	D5
9710	D5
9713	C5
9714	F5
9715	F6
9716	C6
9717	B6
9718	F6
9719	H5
9720	F6
9721	L6
9722	E6
9723	E6
9724	E6
9725	E6
9726	H6
9727	D6
9729	D6
9730	D6
9732	I 6
9733	I 5
9734	C6
9736	D6
9737	D8
9738	H6
9739	I 7
9741	G7
9742	B7
9743	B7
9747	H7
9748	K7
9749	H7
9750	H7
9751	H8
9752	G8
9753	K3
9754	H10
9755	H4
9756	H8
9757	I 8
9761	H10
9765	D8
9766	D9
9767	G8
9768	G8
9770	G10
9771	H10
9772	I 9
9773	A9
9774	A9
9777	E9
9778	E9
9779	E10
9780	G10
9781	G10
9782	G10
9784	G10
9785	J10
9788	J10
9789	I 10
9790	I 10
9792	L11
9793	E9
9794	E9
9795	E9
9796	I 11
9797	K3
9800	H11
9801	H11
9804	K11
9805	K2
9810	B10
9813	B11
9816	K11
9820	I 9
9821	I 9
9822	H10

POWER DIAGRAM


POWER UNIT
PRIMARY FOR /00 /05
9525 only for /05
9526 not for /05
240V ~
230V ~
1525
2525 4n7
Brown
MAINS
Blue
FUSE
AC OUTLET UNIT 1003 PART A
5001
1267
1268
1251 T4A
1250 T4A
1259 T1A
1260 T1A
27V ~
21.5V ~
2303 47n
2309 47n
6990 D3SBA20
2307 47n
2326 4700µ
2327 4700µ
+Vh +35V
-Vh -35V
2313 47n
2314 47n
2315 47n
6278
6280
6279
6281
4x 1N4002GP
+27.7V
7252 78M05
3350 22E
2294 330n
2295 100n
6273 BZX79/C6V8
+5 +5V
7281 BDT61F
2316 3300µ
3344 1k8
3345 1k2
2319 1n
3343 4E7
6299 1N4148
2317 100µ
2322 47µ
6282 BZX79/C15
2318 100µ
7285 BC548B
3256 10k
+14 +14V
ST.BY = 0V ON = -14V
ST.BY on = -4.9V ST.BY off = 0V
1265
LEFT
DIGITAL
ANALOG
+V +27.7V
+5 -5V
+14 +14V
STAND BY
POWER DOWN
-14 -14,4V
RIGHT
TO FRONT UNIT
3372 22k
6277 1N4148
3342 10E
6276 1N4148
3254 22k
2297 22µ
7284 BC548B
3255 47k
2298 2µ2
3382 22E
7282 BD136
7283 BC548B
2330 470µ
3332 3k3
2328 1n
3331 10k
2325 22n
2329 220µ
3333 220E
3330 10k
2331 47µ
6298 BZX79/C15
6301 BZX79/C20
2321 22n
RC5
EASY LINK
EL*
1262 RC5
1261 EL
3251 47k
7288 BC548B
3260 47k
3257 47k
7286 BC558
3261 47k
3262 18k
7287 BC548B
3263 47k
2290 47n
2251 2µ2
3253 1k
3259 22k
2281 220p
2255 330p
3271 1k2
2261 100µ
3357 100E
6253 BZX79/C10V
7255 NJM4560D
3319 1k
2323 1µ
7257 BC556B
6313 1N4148
3275 2k2
2269 820p
6269 1N4148
7251 BC548B
3309 82k
3371
3355 470E
3269 22k
3301 2k7
2263 47p
3267 470E
2259 220µ
6293 1N4148
6295 1N4148
6275 1N4148
2265 100p
2275 47p
7259 BF483
3273 680E
3277 68E
2283 33n
6307 1N4002GP
3369 3E3
3367 1E8
2271 22µ
3281 3k3
6303 1N4148
3361 47E
3283 4k7
3285 2k2
7261 2SC3419
2339 1n
2277 100µ
6319 1N4148
7265 BC548B
3295 270E
7267 BC558B
3297 270E
6321 1N4148
3287 1k5
3289 3k3
2279 22µ
3291 3k
3316 4k7
3315 150E
6271 1N4148
6270 1N4148
2293 22µ
3312 33k
6272 1N4148
3314 68k
6290 1N4148
5254 RELAY C
3310 82k
7276 BC548B
7277 BC546B
3311 22k
2292 150n
3313 22k
7289 BC548B
3383 12k
6306 1N4002GP
3368 3E3
3366 1E8
2270 22µ
3280 3k3
6292 1N4148
6294 1N4148
6274 1N4148
2258 220µ
3266 470E
3268 22k
3300 2k7
2262 47p
3308 82k
3354 470E
3370 22k
6268 1N4148
7250 BC548B
2254 330p
3318 1k
2324 1µ
7256 BC556B
6312 1N4148
3274 2k2
2268 820p
2250 2µ2
3252 1k
3258 22k
2280 220p
2260 100µ
3270 1k2
3356 100E
6252 BZX79/C10V
2264 100p
2274 47p
7258 BF483
3272 680E
3276 68E
2282 33n
6304 1N4148
3360 47E
3282 4k7
3284 2k2
7260 2SC3419
2338 1n
2276 100µ
6318 1N4148
7264 BC548B
3294 270E
7266 BC558B
6320 1N4148
3286 1k5
3288 3k3
2278 22µ
3290 3k
POWER UNIT 3104 217 03630 bl. 130 - 01
TO FRONT UNIT


21
22
1265
LEFT
RIGHT
DIGITAL
ANALOG
+V -27.7V
+5 +5V
+14 +14V
STAND BY
POWER DOWN
-14 -14.4V
TO FRONT UNIT
ST/BY = 0V ON = +14V
ST/BY on = +4.9V ST/BY off = 0V
7255 NJM4560D
7257 BC556B
7256 BC556B
7259 BF483
7258 BF483
7251 BC548B
7250 BC548B
7261 2SC3419
7260 2SC3419
7265 BC548B
7264 BC548B
7267 BC558B
7266 BC558B
7269 2SD1894
7268 2SD1894
7275 2SB1254
7274 2SB1254
7276 BC548B
7277 BC546B
7289 BC548B
7281 BDT61F
7285 BC548B
7284 BC548B
7283 BC548B
7252 9M05
6307 1N4002GP
6306 1N4002GP
6253 BZX79/C10V
6252 BZX79/C10V
6273 BZX79/C6V8
6282 BZX79/C15
6301 BZX79/C20
5254 RELAY C
5253 1µH
5252 1µH
3397 2E2
3396 2E2
1271
1701
1270
1601
LS
L
R
RS
LEFT
RIGHT
+35V +Vh
-Vh -35V
mV
LEU0017
9401

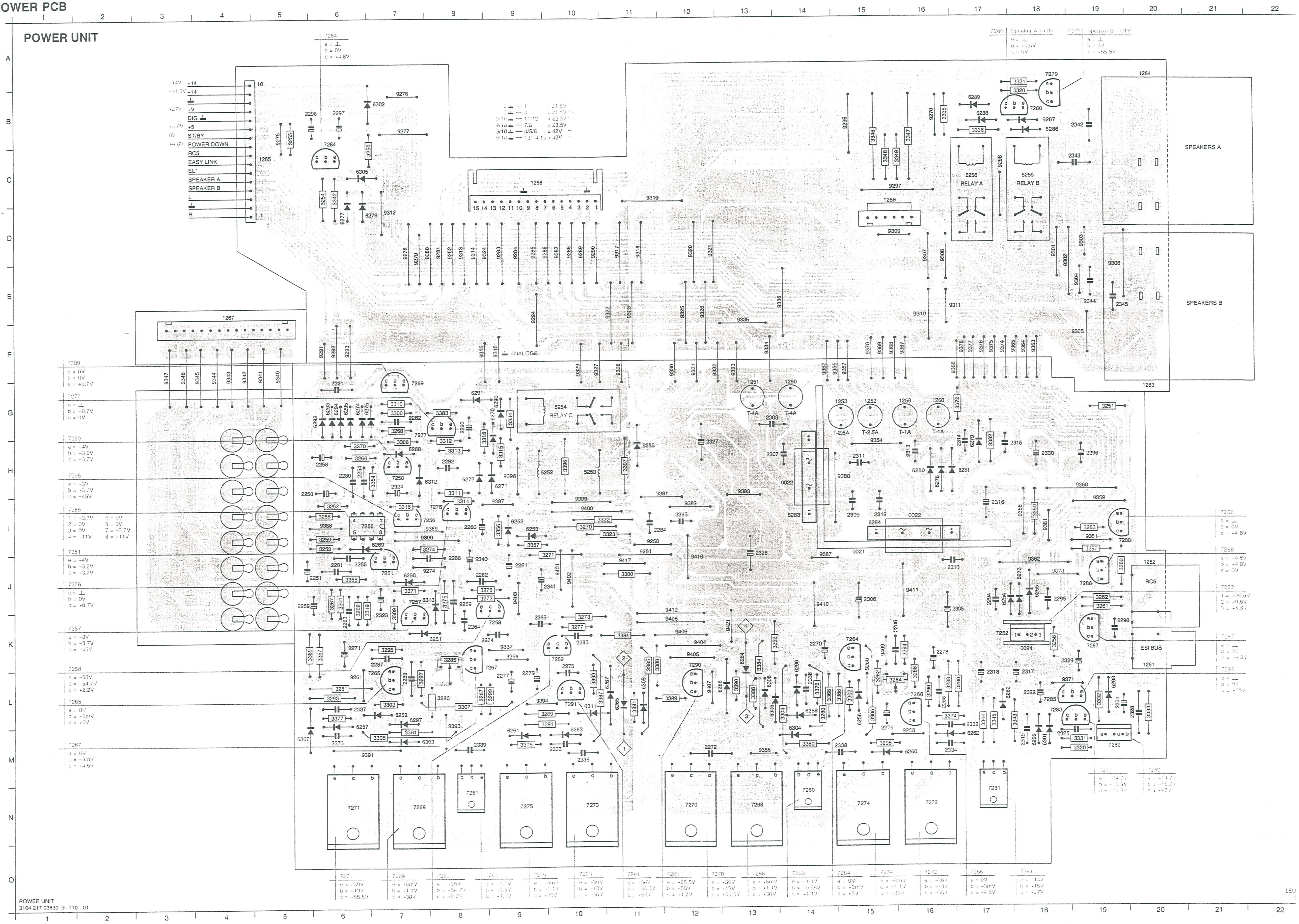
Quiesent current:
adjust 3285 to
15.4mV DC-voltage
(AF-input grounded)

Quiesent current:
adjust 3284 to
15.4mV DC-voltage
(AF-input grounded)

1003	F3	3294	L23	7283	L10
1250	C7	3295	C23	7284	K11
1251	B7	3296	M23	7285	H12
1259	E6	3297	D23	7286	M4
1260	F6	3298	M23	7287	L5
1261	M6	3299	D23	7288	L3
1261	L6	3300	L15	7289	J18
1262	K6	3301	F15	9525	C3
1265	B13	3302	L23	9526	D3
1265	J1	3303	C23		
1267	B5	3304	L24		
1268	B6	3305	D24		
1270	I27	3306	M24		
1271	F26	3307	D24		
1525	D2	3308	L16		
1601	H29	3309	E16		
1701	F27	3310	I17		
2250	N13	3311	I17		
2251	C13	3312	H17		
2254	M15	3313	I18		
2255	C15	3314	H18		
2258	K14	3315	H17		
2259	F15	3316	G17		
2260	N15	3318	M17		
2261	B15	3319	C17		
2262	L15	3322	M25		
2263	F15	3323	D25		
2264	K18	3330	M11		
2265	D18	3331	L10		
2268	N18	3332	L9		
2269	C18	3333	M10		
2270	J22	3342	K9		
2271	A22	3343	I10		
2274	K19	3344	H9		
2275	B19	3345	I9		
2276	L22	3350	G9		
2277	D22	3354	L15		
2278	N19	3355	E15		
2279	E19	3356	N16		
2280	N14	3357	B16		
2281	C14	3360	K21		
2282	L20	3361	B21		
2283	C20	3366	J21		
2284	M25	3367	A21		
2285	E25	3368	J21		
2286	L23	3369	A21		
2287	C23	3370	L16		
2288	M23	3371	E16		
2289	D23	3372	K8		
2290	M6	3382	L8		
2292	I17	3383	J18		
2293	H17	3396	L25		
2294	G9	3397	C25		
2295	G11	3681	G28		
2297	K10	3682	H28		
2298	K12	3683	G28		
2303	C8	3684	H28		
2307	C9	5001	B4		
2309	C8	5252	M25		
2313	F9	5253	D25		
2314	F7	5254	H20		
2315	F7	5254	I26		
2316	H9	6252	O16		
2317	I9	6253	B16		
2318	I11	6268	M15		
2319	H10	6269	D15		
2321	M14	6270	H18		
2322	I10	6271	G18		
2323	C17	6272	H17		
2324	N17	6273	G11		
2325	L11	6274	K16		
2326	C10	6275	F16		
2327	D10	6276	K9		
2328	L9	6277	K9		
2329	L12	6278	F7		
2330	M8	6279	G8		
2331	M9	6280	F8		
2338	M21	6281	G8		
2339	D21	6282	I11		
2347	B23	6290	H19		
2348	K23	6292	K15		
2349	E23	6293	F15		
2350	N23	6294	K16		
2525	D2	6295	F16		
3251	L2	6298	M10		
3252	N14	6299	H11		
3253	C14	6301	M11		
3254	K10	6303	C20		
3255	K12	6304	K20		
3256	I12	6306	J20		
3257	L3	6307	A20		
3258	N14	6312	N17		
3259	C14	6313	C17		
3260	L3	6318	K22		
3261	L4	6319	B22		
3262	M5	6320	M22		
3263	L5	6321	E22		
3266	K15	6990	C8		
3267	F15	7250	M16		
3268	K15	7251	D15		
3269	E15	7252	F10		
3270	N16	7255	C16		
3271	B16	7255	M16		
3272	L18	7256	M17		
3273	D18	7257	C17		
3274	N17	7258	K19		
3275	D17	7259	C19		
3276	L19	7260	M21		
3277	D19	7261	D21		
3280	K20	7264	L22		
3281	B20	7265	C22		
3282	L20	7266	M22		
3283	C20	7267	D22		
3284	M20	7268	K24		
3285	D20	7269	C24		
3286	M20	7274	N24		
3287	E20	7275	E24		
3288	N20	7276	I18		
3289	E20	7277	I19		
3290	O20	7281	H10		
3291	F20	7282	L10		

POWER PCB

POWER UNIT


+14V +14
-14.5V -14
+27V +V
DIG ⊥
+4.8V +5
0V ST/BY
+4.8V POWER DOWN
RC5
EASY LINK
EL*
SPEAKER A
SPEAKER B
L
R
1265
7284
e = ⊥
b = 0V
c = +4.8V
2 ⊥ — 1 = 21.5V
2 ⊥ — 3 = 21.5V
9/10 ⊥ — 11/12 = 23.5V
9/10 ⊥ — 7/8 = 23.5V
9/10 ⊥ — 4/5/6 = 42V
9/10 ⊥ — 13/14 15 = 42V
1268
1266
1267
1264
1263
1262
1261
7280 Speaker A = ON
e = ⊥
b = +0.6V
c = 0V
7279 Speaker B = OFF
e = ⊥
b = 0V
c = +55.5V
5256 RELAY A
5255 RELAY B
5254 RELAY C
SPEAKERS A
SPEAKERS B
ANALOGE
RC5
ESI BUS
T-4A
T-2,5A
T-1A
0021
0022
0024
7289
e = 0V
b = 0V
c = +0,7V
7277
e = ⊥
b = +0,7V
c = 0V
7250
e = −4V
b = −3,2V
c = −3,7V
7256
e = −3V
b = −3,7V
c = −45V
7255
1 = −3,7V
2 = 0V
3 = 0V
4 = −11V
5 = 0V
6 = 0V
7 = −3,7V
8 = +11V
7251
e = −4V
b = −3,2V
c = −3,7V
7276
e = ⊥
b = 0V
c = +0,7V
7257
e = −3V
b = −3,7V
c = −45V
7258
e = −55V
b = −54,7V
c = +2,2V
7265
e = 0V
b = +3mV
c = +5V
7267
e = 0V
b = −3mV
c = −4,5V
7288
e = ⊥
b = 0V
c = +4.8V
7286
e = +4.8V
b = +4.8V
c = 0V
7252
1 = +26.8V
2 = −0.6V
3 = −5.8V
7287
e = ⊥
b = 0V
c = +4.8V
7285
e = ⊥
b = 0V
c = +15V
7271
e = +30V
b = +19V
c = +55.5V
7269
e = +8mV
b = +1.1V
c = +30V
7259
e = −55V
b = −54.7V
c = +2.2V
7261
e = −1.1V
b = −0.5V
c = −1.1V
7275
e = −8mV
b = −1.1V
c = −30V
7273
e = −30V
b = −13V
c = −56V
7291
e = −56V
b = −55.5V
c = +55V
7290
e = −55.5V
b = +55V
c = +1.7V
7270
e = +30V
b = +19V
c = +55.5V
7268
e = +8mV
b = +1.1V
c = +30V
7260
e = +1.1V
b = −0.55V
c = +1.1V
7264
e = 0V
b = +3mV
c = +5V
7274
e = −8mV
b = −1.1V
c = −30V
7272
e = −30V
b = −13V
c = −56V
7266
e = 0V
b = −3mV
c = −4.6V
7281
e = +14V
b = +15V
c = +27V
7271
7269
7251
7275
7273
7270
7268
7260
7274
7272
7281
7282
7283
7253
7262
7263
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
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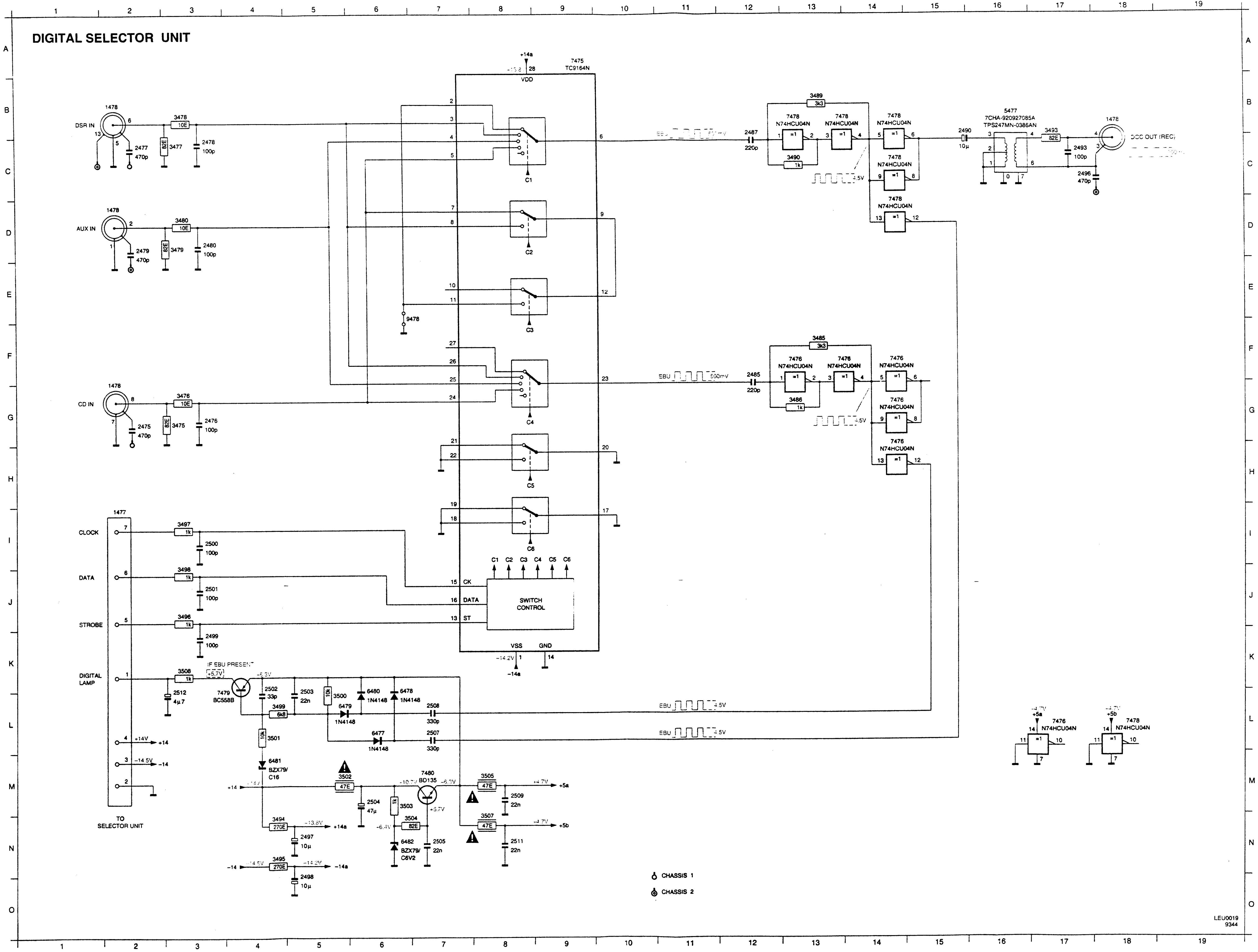
POWER UNIT
3104 217 03630 bl. 110 - 01

DIGITAL SELECTOR DIAGRAM

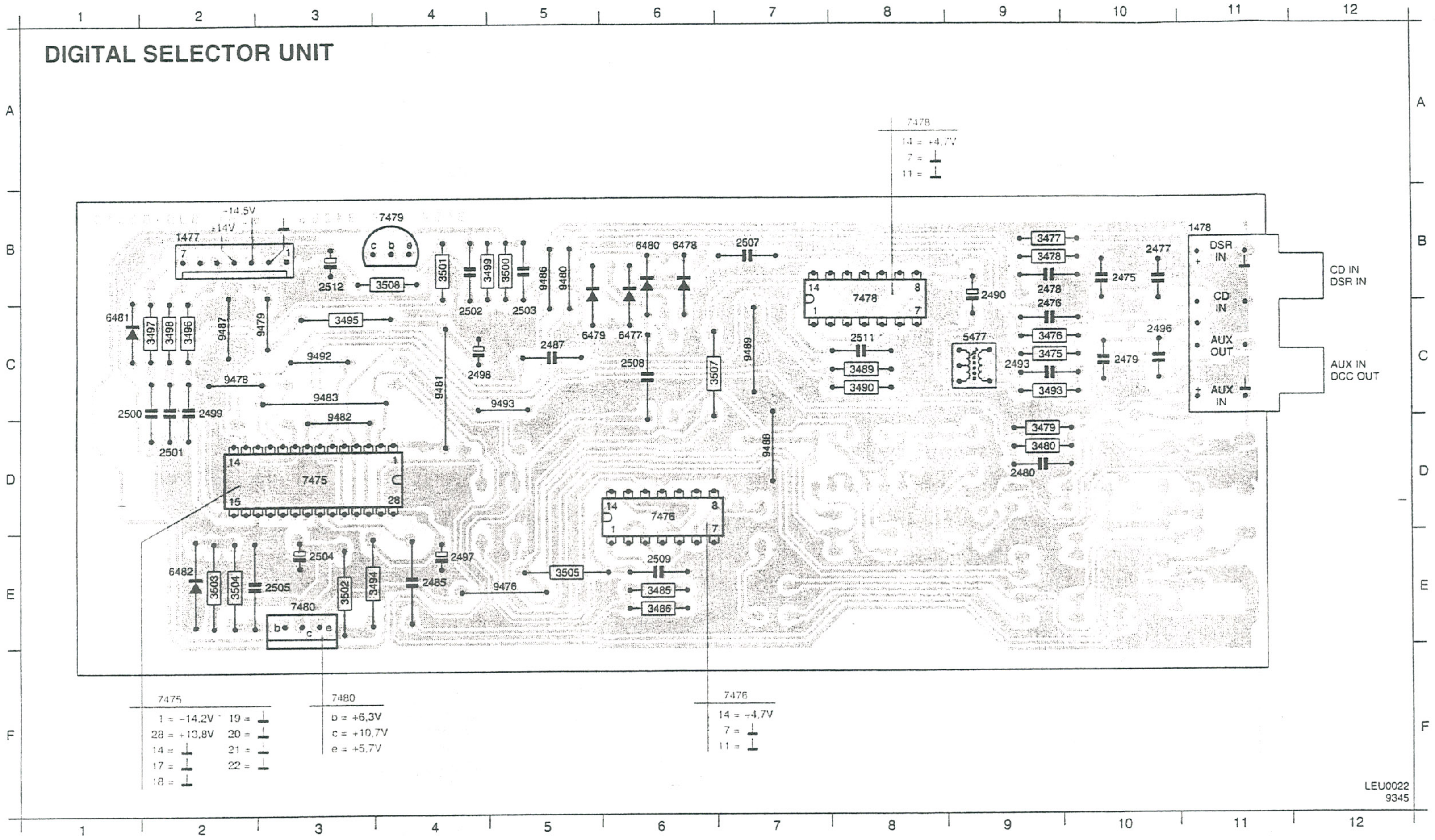

DIGITAL SELECTOR UNIT
DSR IN
AUX IN
CD IN
1478
3478 10E
3477 82E
2477 470p
2478 100p
3480 10E
3479 82E
2479 470p
2480 100p
3476 10E
3475 82E
2475 470p
2476 100p
9478
7475 TC9164N
+14a
VDD
C1 C2 C3 C4 C5 C6
SWITCH CONTROL
CK
DATA
ST
VSS
GND
−14.2V
−14a
1477
CLOCK
DATA
STROBE
DIGITAL LAMP
3497 1k
2500 100p
3498 1k
2501 100p
3496 1k
2499 100p
3508 1k
2512 4µ7
+14V
+14
−14.5V
−14
TO SELECTOR UNIT
IF EBU PRESENT
+5.7V
−6.3V
7479 BC558B
2502 33p
2503 22n
3499 6k8
3500 10k
3501 10k
6479 1N4148
6480 1N4148
6478 1N4148
6477 1N4148
2508 330p
2507 330p
6481 BZX79/ C16
3502 47E
2504 47µ
3503 1k
3504 82E
7480 BD135
−10.7V
+5.7V
−6.4V
6482 BZX79/ C6V2
2505 22n
3505 47E
3507 47E
2509 22n
2511 22n
+4.7V
+5a
+5b
3494 270E
−13.8V
+14a
2497 10µ
3495 270E
−14.5V
−14.2V
−14a
2498 10µ
EBU 500mV
EBU 4.5V
4.5V
2487 220p
2485 220p
3489 3k3
3490 1k
3485 3k3
3486 1k
7478 N74HCU04N
7476 N74HCU04N
=1
2490 10µ
5477 7CHA-920927085A TPS247MN-0386AN
3493 82E
2493 100p
2496 470p
DCC OUT (REC)
+4.7V
+5a
+5b
CHASSIS 1
CHASSIS 2
LEU0019 9344
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

1477	I2
1478	B18
1478	G2
1478	D2
1478	B2
2475	G2
2476	G3
2477	C2
2478	C3
2479	D2
2480	D3
2485	F12
2487	B12
2490	B15
2493	C17
2496	C17
2497	N5
2498	O5
2499	K3
2500	I3
2501	J3
2502	K4
2503	L5
2504	M6
2505	N7
2507	L7
2508	L7
2509	M8
2511	N8
2512	L3
3475	G3
3476	G3
3477	C3
3478	B3
3479	D3
3480	D3
3485	F13
3486	G13
3489	B13
3490	C13
3493	B17
3494	N4
3495	N4
3496	J3
3497	I3
3498	J3
3499	L4
3500	L5
3501	L4
3502	M5
3503	M6
3504	N6
3505	M8
3507	N8
3508	K3
5477	B16
6477	L6
6478	L6
6479	L5
6480	L6
6481	M4
6482	N6
7475	A9
7476	F13
7476	F13
7476	H14
7476	G14
7476	F14
7476	L17
7478	B13
7478	B13
7478	D14
7478	C14
7478	B14
7478	L18
7479	L3
7480	M7
9478	E6

DIGITAL SELECTOR PCB

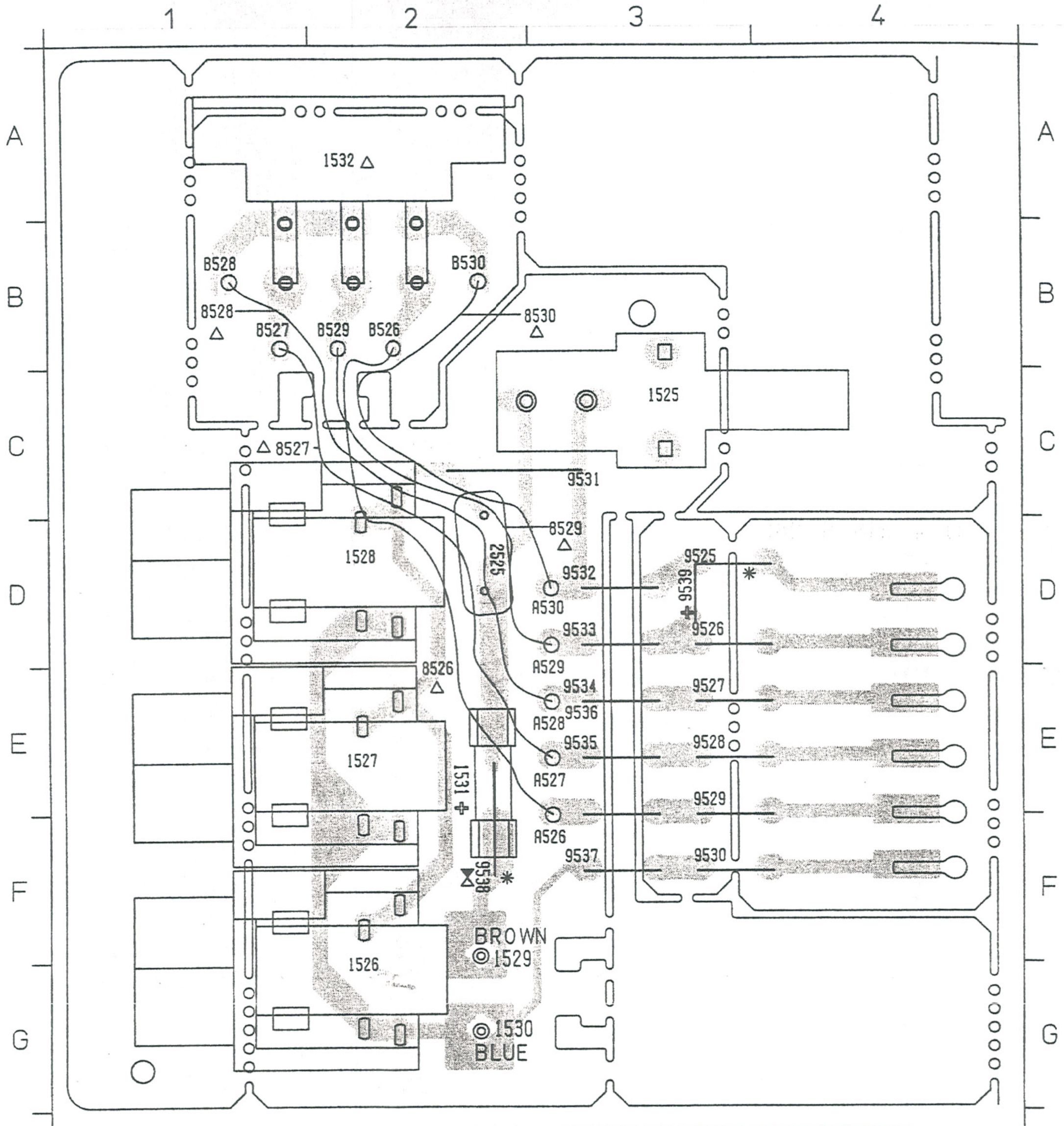
1477	B2
1478	B11
2475	B10
2476	C9
2477	B10
2478	B9
2479	C10
2480	D9
2485	E4
2487	C5
2490	B9
2493	C9
2496	C10
2497	E4
2498	C4
2499	C2
2500	C1
2501	D2
2502	C4
2503	C5
2504	E3
2505	E3
2507	B7
2508	C6
2509	E6
2511	C8
2512	B3
3475	C9
3476	C9
3477	B9
3478	B9
3479	D9
3480	D9
3485	E6
3486	E6
3489	C8
3490	C8
3493	C9
3494	E4
3495	C3
3496	C2
3497	C2
3498	C2
3499	B5
3500	B5
3501	B4
3502	E3
3503	E2
3504	E2
3505	E5
3507	C7
3508	B4
5477	C9
6477	C6
6478	B6
6479	C5
6480	B6
6481	C1
6482	E2
7475	D3
7476	D6
7478	C8
7479	B4
7480	E3
9476	E5
9478	C2
9479	C3
9480	B5
9481	C4
9482	D3
9483	C3
9486	B5
9487	C2
9488	D7
9489	C7
9492	C3
9493	C5

DIGITAL SELECTOR UNIT


1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
1477
1478
-14,5V
+14V
7479
7478
14 = -4,7V
7 = ⊥
11 = ⊥
DSR IN
CD IN
AUX OUT
AUX IN
CD IN
DSR IN
AUX IN
DCC OUT
7475
7476
7480
5477
7475
1 = -14,2V
28 = +13,8V
14 = ⊥
17 = ⊥
18 = ⊥
19 = ⊥
20 = ⊥
21 = ⊥
22 = ⊥
7480
b = +6,3V
c = +10,7V
e = +5,7V
7476
14 = +4,7V
7 = ⊥
11 = ⊥
LEU0022
9345

AC OUTLET PCB

1525	C3
1526	G2
1527	E2
1528	D2
1531	E2
1532	A2
2525	D2
8526	E2
8527	C1
8528	B1
8529	D3
8530	B3
9525	D3
9526	D3
9527	E3
9528	E3
9529	E3
9530	F3
9531	C3
9532	D3
9533	D3
9534	E3
9535	E3
9536	E3
9537	F3
9538	F2
9539	D3
A526	F3
A527	E3
A528	E3
A529	E3
A530	D3
B526	B2
B527	B1
B528	B1
B529	B2
B530	B2


1
2
3
4
A
B
C
D
E
F
G
1532 △
8528
8528
8530
8530
8527
8529
8526
8527
1525
9531
1528
2525
8529
9525
9532
9539
9526
A530
9533
A529
9534
9527
8526
9536
A528
9535
9528
1527
1531
A527
9529
A526
9530
9537
9538
BROWN
1529
1526
1530
BLUE

△ ONLY FOR /01 :

1532 : VOLTAGE SELECTOR

8526
8527
8528
8529
8530
DOUBLE INSULATED WIRE

⧗ NOT FOR /01 :

9538

ITEMS NOT IN /00

1532 : VOLTAGE SELECTOR

8526
8527
8528
8529
8530
WIRE

9525
9538

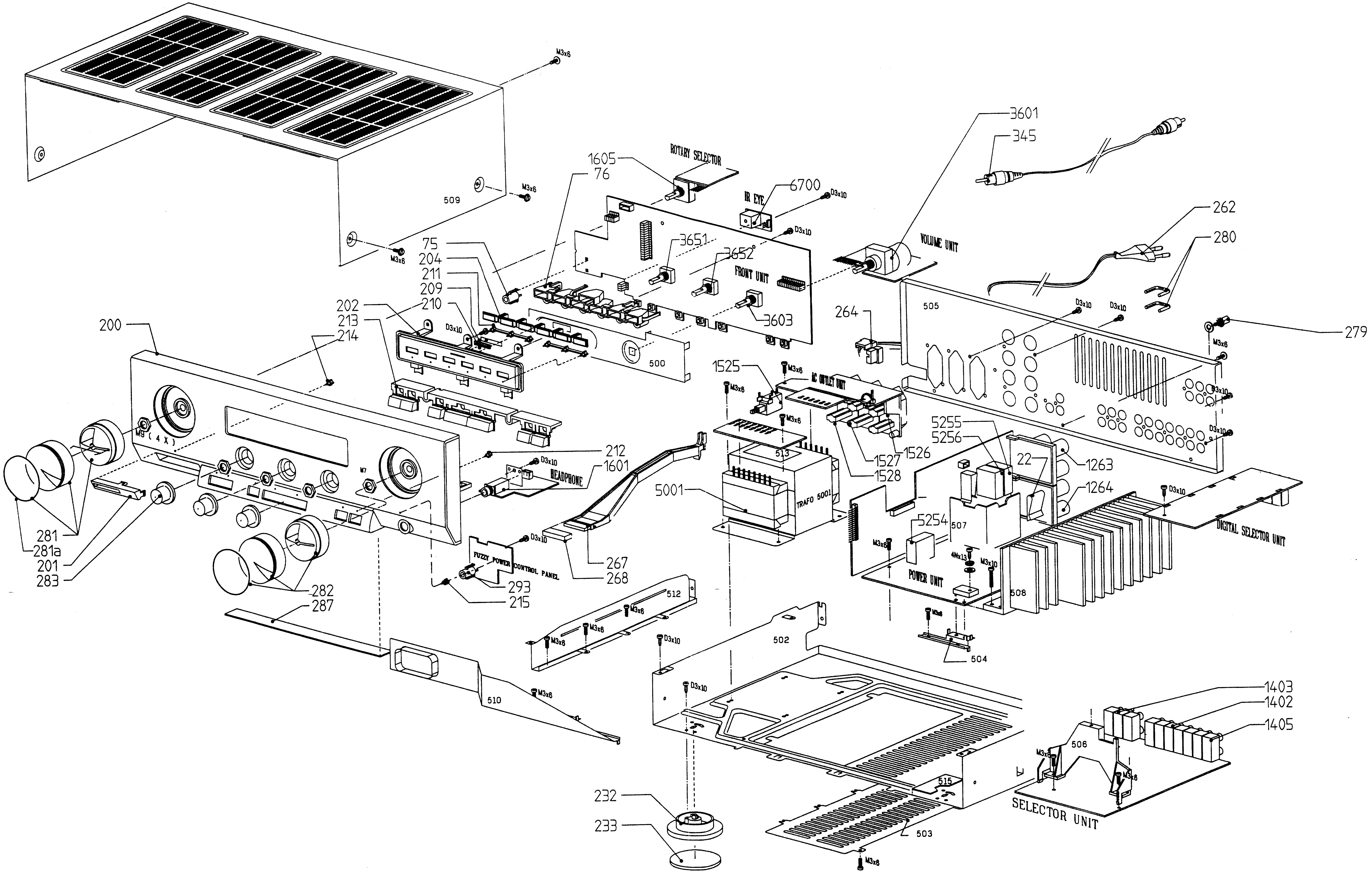
✳ ONLY FOR /05 :	✚ NOT FOR /05 :
9525	9539
9538	1531

ATTENTION : Mainscord to be soldered at the coresponding eyelets : brown wire = live
blue wire = neutral

3104 217 03650 FA931 /00
3104 217 03820 FA931 /05
3104 217 03830 FA931 /01

H
I
1
2
3
4

EXPLODED VIEW


M3x6
509
M3x6
M3x6
ROTARY SELECTOR
1605
76
IR EYE
6700
D3x10
D3x10
3651
3652
FRONT UNIT
3603
75
204
211
209
210
202
213
214
200
D3x10
500
M9 (4 X)
M7
212
D3x10
HEADPHONE
1601
281
281a
201
283
282
287
FUZZY POWER CONTROL PANEL
D3x10
293
215
267
268
512
M3x6
M3x6
M3x6
510
M3x6
3601
345
VOLUME UNIT
262
280
264
505
D3x10
D3x10
279
M3x6
D3x10
D3x10
1525
M3x6
AC OUTLET UNIT
M3x6
M3x6
513
1527
1526
1528
5001
TRAFO 5001
5255
5256
22
1263
1264
D3x10
DIGITAL SELECTOR UNIT
5254
507
M3x6
4Nx13
M3x10
POWER UNIT
508
M3x6
504
502
D3x10
D3x10
515
503
M3x8
232
233
1403
1402
1405
506
M3x8
M3x8
SELECTOR UNIT

MECHANICAL PARTS

	4822 736 21924	I.F.U.
	4822 218 10439	RH6640/01
22	4822 492 70583	CLAMPING SPRING
75	4822 255 41247	LEDHOLDER
76	4822 466 70733	LIGHT SCREEN
200	4822 426 51714	FRONT ASSY
201	4822 450 61831	IR-WINDOW
202	4822 454 12791	PLATE ORNAMENTAL
204	4822 450 61832	WINDOW
209	4822 466 70734	DIFFUSOR
210	4822 130 91065	DIG.REFLECTOR
211	4822 380 20424	REFLECTOR
212	4822 380 20425	LED REFLECTOR
213	4822 410 61698	BUTTON ASSY
214	4822 380 20425	LED REFLECTOR
215	4822 380 20425	LED REFLECTOR
232	4822 462 41888	FOOT
233	4822 462 41887	FOOT VELT
262	4822 321 10853	MAINS CORD
264	4822 532 60948	BUSHING
267	4822 404 21194	BRACKET
268	4822 462 71808	CAP POWER BRACKET
279	4822 502 13921	PHONO GND SCREW
280	4822 268 90449	JUMPER PLUG
281	4822 410 61699	KNOB SOURCE SEL.
281A	4822 532 21449	RUBBER RING
282	4822 413 51399	VOLUME KNOP ASSY
283	4822 413 41696	KNOB ASSY
287	4822 426 60621	STRIP
293	4822 255 41247	LEDHOLDER
345	4822 321 61478	CABLE

1263	4822 290 81479	L.S. Connector
1264	4822 290 81479	L.S. Connector
1402	4822 267 31451	Pin jack
1403	4822 267 31449	Pin jack
1405	4822 267 31451	Pin jack
1525	4822 276 13224	Power switch
1526	4822 265 20594	Mains outlet
1527	4822 265 20594	Mains outlet
1528	4822 265 20594	Mains outlet
1601	4822 267 31453	Headphone Socket
1605	4822 273 10237	Rotary switch
3651	4822 101 21177	20k POTM.
3652	4822 101 21177	20k POTM.
3601	4822 101 21175	Volume assy
3603	4822 101 21176	100k POTM.
5001	4822 146 31225	Mains Trafo
5001	4822 146 31326	Trafo only/01s
5254	4822 280 70368	Relay
5255	4822 280 70368	Relay
5256	4822 280 70368	Relay
6700	4822 214 52009	IR EYE

POWER UNIT

MISCELLANEOUS

1250	4822 071 54002▲	Fuse 4A
1251	4822 071 54002▲	Fuse 4A
1252	4822 071 52502▲	Fuse 2.5A
1253	4822 071 52502▲	Fuse 2.5A
1259	4822 071 51002▲	Fuse 1A
1260	4822 071 51002▲	Fuse 1A
1261	4822 265 20542	Pin jack
1262	4822 265 20543	Pin jack
1263	4822 290 81479	L.S. Connector
1264	4822 290 81479	L.S. Connector
1265	4822 265 41325	Connector 16P
1267	4822 267 51239	Connector 15P

CAPACITORS

2250	4822 124 40244	2,2µF 20% 63V
2251	4822 124 40244	2,2µF 20% 63V
2254	4822 122 33195	100pF 10% 50V
2255	4822 122 33195	100pF 10% 50V
2258	4822 124 40196	220µF 20% 16V
2259	4822 124 40196	220µF 20% 16V
2260	4822 124 41643	100µF 20% 16V
2261	4822 124 41643	100µF 20% 16V
2262	4822 122 33848	47pF 5%SL 50V
2263	4822 122 33848	47pF 5%SL 50V
2264	4822 122 33308	100pF 500V
2265	4822 122 33308	100pF 500V
2268	4822 122 10466	220pF 10% 50V
2269	4822 122 10466	220pF 10% 50V
2270	4822 124 80562	22µF 20% 160V
2271	4822 124 80562	22µF 20% 160V
2272	4822 122 10466	220pF 10% 50V
2273	4822 122 10466	220pF 10% 50V
2274	4822 126 12017	47pF NPO 500V
2275	4822 126 12017	47pF NPO 500V
2276	4822 124 41584	100µF 20% 10V
2277	4822 124 41584	100µF 20% 10V
2278	4822 124 41596	22µF 20% 50V
2279	4822 124 41596	22µF 20% 50V
2280	4822 122 33195	100pF 10% 50V
2281	4822 122 33195	100pF 10% 50V
2282	4822 122 33197	1nF 10% 50V
2283	4822 122 33197	1nF 10% 50V
2284	4822 121 42007	100nF 100V
2285	4822 121 42007	100nF 100V
2286	4822 126 11714	4,7nF 20%
2287	4822 126 11714	4,7nF 20%
2288	4822 126 11714	4,7nF 20%
2289	4822 126 11714	4,7nF 20%
2290	4822 121 43526	47nF 5% 250V
2292	4822 121 41854	150nF 5% 63V
2293	5322 124 41431	22µF 20% 35V
2294	5322 121 42661	330nF 5% 63V
2295	5322 121 42386	100nF 5% 63V
2296	4822 124 40201	1000µF 20% 16V
2297	5322 124 41431	22µF 20% 35V
2298	4822 124 40244	2,2µF 20% 63V
2303	4822 121 43875	47nF 5% 250V
2305	4822 124 42414	2200µF 20% 50V
2306	4822 124 42414	2200µF 20% 50V
2307	4822 121 43875	47nF 5% 250V
2309	4822 121 43875	47nF 5% 250V
2310	4822 121 42007	100nF 10% 100V
2311	4822 121 42007	100nF 10% 100V
2312	4822 121 42007	100nF 10% 100V
2313	4822 121 42935	47nF 5% 100V
2314	4822 121 42935	47nF 5% 100V
2315	4822 121 42935	47nF 5% 100V
2316	4822 124 42367	3300µF 20% 35V
2317	5322 124 21189	100µF 20% 40V
2318	5322 124 21189	100µF 20% 40V
2319	4822 122 33197	1nF 10% 50V
2321	4822 126 11585	22nF +80-20% 25V
2322	4822 124 40433	47µF 20% 25V
2323	4822 124 40242	1µF 20% 63V
2324	4822 124 40242	1µF 20% 63V
2325	4822 126 11585	22nF +80-20% 25V
2326	4822 124 42413	4700µF 20% 80V
2327	4822 124 42413	4700µF 20% 80V
2328	4822 122 33197	1nF 10% 50V
2329	4822 124 22263	220µF 20% 25V
2330	4822 124 41334	470µF 20% 35V
2331	4822 124 41525	100µF 20% 25V
2332	4822 122 33195	100pF 10% 50V
2333	4822 122 33195	100pF 10% 50V
2334	4822 122 33519	470pF 10% 50V
2335	4822 122 33519	470pF 10% 50V
2336	4822 122 10466	220pF 10% 50V
2337	4822 122 10466	220pF 10% 50V
2338	4822 122 33197	1nF 10% 50V
2339	4822 122 33197	1nF 10% 50V
2340	4822 124 40771	47µF 20% 100V
2341	4822 124 40771	47µF 20% 100V
2342	4822 122 33197	1nF 10% 50V
2343	4822 122 33197	1nF 10% 50V
2344	4822 122 33197	1nF 10% 50V
2345	4822 122 33197	1nF 10% 50V

RESISTORS

3250	4822 116 52269	3k3 5% 0,5W
3251	4822 116 52284	47k 5% 0,5W
3252	4822 050 11002	1k 1% 0,4W
3253	4822 050 11002	1k 1% 0,4W
3254	4822 116 52257	22k 5% 0,5W
3255	4822 116 52284	47k 5% 0,5W
3256	4822 116 52233	10k 5% 0,5W
3257	4822 116 52284	47k 5% 0,5W
3258	4822 116 52257	22k 5% 0,5W
3259	4822 116 52257	22k 5% 0,5W
3260	4822 116 52284	47k 5% 0,5W
3261	4822 116 52284	47k 5% 0,5W
3262	4822 116 52251	18k 5% 0,5W
3263	4822 116 52284	47k 5% 0,5W
3266	4822 116 52226	560Ω 5% 0,5W
3267	4822 116 52226	560Ω 5% 0.5W
3268	4822 116 52257	22k 5% 0,5W
3269	4822 116 52257	22k 5% 0,5W
3270	4822 053 11222▲	2k2 5% 2W
3271	4822 053 11222▲	2k2 5% 2W
3272	4822 052 10471▲	470Ω 5% 0,33W
3273	4822 052 10471▲	470Ω 5% 0,33W
3274	4822 116 52256	2k2 5% 0,5W
3275	4822 116 52256	2k2 5% 0,5W
3276	4822 116 52188	27Ω 5% 0,5W
3277	4822 116 52188	27Ω 5% 0,5W
3280	4822 053 11472▲	4k7 5% 2W
3281	4822 053 11472▲	4k7 5% 2W
3282	4822 116 52283	4k7 5% 0,5W
3283	4822 116 52283	4k7 5% 0,5W
3284	4822 100 11391	330Ω 30%lin 0,1W
3285	4822 100 11391	330Ω 30%lin 0,1W
3286	4822 116 52243	1k5 5% 0,5W
3287	4822 116 52243	1k5 5% 0,5W
3288	4822 053 10222▲	2k2 5% 1W
3289	4822 053 10222▲	2k2 5% 1W
3290	4822 053 10302▲	3k 5% 1W
3291	4822 053 10302▲	3k 5% 1W
3292	4822 053 10103▲	10k 5% 1W
3293	4822 053 10103▲	10k 5% 1W
3294	4822 116 52215	220Ω 5% 0,5W
3295	4822 116 52215	220Ω 5% 0,5W
3296	4822 116 52215	220Ω 5% 0,5W
3297	4822 116 52215	220Ω 5% 0,5W
3298	4822 116 52224	470Ω 5% 0.5W
3299	4822 116 52224	470Ω 5% 0,5W
3300	4822 116 52263	2k7 5% 0,5W
3301	4822 116 52263	2k7 5% 0,5W
3302	4822 116 52224	470Ω 5% 0,5W
3303	4822 116 52224	470Ω 5% 0,5W
3304	4822 113 80632▲	0Ω22 5% 4W
3305	4822 113 80632▲	0Ω22 5% 4W
3306	4822 113 80632▲	0Ω22 5% 4W
3307	4822 113 80632▲	0Ω22 5% 4W
3308	4822 116 52304	82k 5% 0,5W
3309	4822 116 52304	82k 5% 0,5W
3310	4822 116 52239	120k 5% 0,5W
3311	4822 116 52257	22k 5% 0,5W
3312	4822 116 52271	33k 5% 0,5W
3313	4822 116 52257	22k 5% 0,5W
3314	4822 116 52297	68k 5% 0,5W
3315	4822 116 52211	150Ω 5% 0,5W
3316	4822 116 52283	4k7 5% 0,5W
3318	4822 050 11002	1k 1% 0,4W
3319	4822 050 11002	1k 1% 0,4W
3320	4822 116 52233	10k 5% 0,5W
3321	4822 116 52233	10k 5% 0,5W
3322	4822 052 10478▲	4Ω7 5% 0,33W
3323	4822 052 10478▲	4Ω7 5% 0,33W
3330	4822 116 52283	4k7 5% 0,5W
3331	4822 116 52283	4k7 5% 0,5W
3332	4822 050 23302	3k3 1% 0,6W
3333	4822 052 10221▲	220Ω 5% 0,33W
3334	4822 050 26801	680Ω 1% 0,6W
3335	4822 050 26801	680Ω 1% 0,6W
3336	4822 050 26801	680Ω 1% 0,6W
3342	4822 052 10109▲	10Ω 5% 0,33W
3343	4822 052 10478▲	4Ω7 5% 0,33W
3344	4822 050 21802▲	1k8 1% 0,6W
3345	4822 050 21202▲	1k2 1% 0,6W
3346	4822 053 12331▲	330Ω 5% 3W
3347	4822 053 12331▲	330Ω 5% 3W
3348	4822 050 21801▲	180Ω 1% 0,6W
3349	4822 050 21801▲	180Ω 1% 0,6W
3350	4822 052 10229▲	22Ω 5% 0,33W
3354	4822 116 52224	470Ω 5% 0,5W
3355	4822 116 52224	470Ω 5% 0,5W
3356	4822 116 52195	47Ω 5% 0,5W
3357	4822 116 52195	47Ω 5% 0,5W
3360	4822 052 10479▲	47Ω 5% 0,33W
3361	4822 052 10479▲	47Ω 5% 0,33W
3366	4822 052 10188▲	1Ω8 5% 0,33W
3367	4822 052 10188▲	1Ω8 5% 0,33W
3368	4822 053 11338▲	3Ω3 5% 2W
3369	4822 053 11338▲	3Ω3 5% 2W
3370	4822 116 52257	22k 5% 0,5W
3371	4822 116 52257	22k 5% 0,5W
3372	4822 116 52257	22k 5% 0,5W
3374	4822 116 52263	2k7 5% 0,5W
3375	4822 116 52263	2k7 5% 0,5W
3376	4822 116 52263	2k7 5% 0,5W
3377	4822 116 52263	2k7 5% 0,5W
3380	4822 052 10339▲	33Ω 5% 0,33W
3381	4822 052 10339▲	33Ω 5% 0,33W
3382	4822 052 10229▲	22Ω 5% 0,33W
3383	4822 116 52238	12k 5% 0,5W
3384	4822 113 80633▲	0Ω1 5% 3W
3385	4822 113 80633▲	0Ω1 5% 3W
3386	4822 116 52283	4k7 5% 0,5W
3387	4822 113 80633▲	0Ω1 5% 3W
3388	4822 116 52276	3k9 5% 0,5W
3389	4822 116 52283	4k7 5% 0,5W
3390	4822 116 52235	1M 5% 0,5W
3391	4822 116 52235	1M 5% 0,5W
3393	4822 116 52283	4k7 5% 0,5W
3396	4822 052 10228▲	2Ω2 5% 0,33W
3397	4822 052 10228▲	2Ω2 5% 0,33W

COILS

5252	4822 157 70599	Coil
5253	4822 157 70599	Coil
5254	4822 280 70368▲	Relay
5255	4822 280 70368▲	Relay
5256	4822 280 70368▲	Relay

DIODES

6250	4822 130 61219	BZX79-C10
6251	4822 130 61219	BZX79-C10
6252	4822 130 61219	BZX79-C10
6253	4822 130 61219	BZX79-C10
6254	4822 130 30621	1N4148
6255	5322 130 30684	1N4002GP
6256	4822 130 30842	BAV21
6257	4822 130 30842	BAV21
6258	5322 130 34563	BZX79-C2V7
6259	5322 130 34563	BZX79-C2V7
6260	5322 130 31504	BZX79-C3V3
6261	5322 130 31504	BZX79-C3V3
6262	4822 130 30842	BAV21
6263	4822 130 30842	BAV21
6264	4822 130 32213▲	BYV28-50
6265	4822 130 32213▲	BYV28-50
6266	4822 130 32213▲	BYV28-50
6267	4822 130 32213▲	BYV28-50
6268	4822 130 30621	1N4148
6269	4822 130 30621	1N4148
6270	4822 130 30621	1N4148
6271	4822 130 30621	1N4148
6272	4822 130 30621	1N4148
6273	4822 130 34278	BZX79-C6V8
6274	4822 130 30621	1N4148
6275	4822 130 30621	1N4148
6276	4822 130 30621	1N4148
6277	4822 130 30621	1N4148
6278	5322 130 30684▲	1N4002GP
6279	5322 130 30684▲	1N4002GP
6280	5322 130 30684▲	1N4002GP
6281	5322 130 30684▲	1N4002GP
6282	4822 130 34281	BZX79-C15
6283	4822 130 82078▲	D5SBA20
6284	4822 130 82079▲	D3SBA20
6285	4822 130 30621	1N4148
6286	4822 130 30621	1N4148
6287	4822 130 30621	1N4148
6288	4822 130 30621	1N4148
6289	4822 130 30621	1N4148
6290	4822 130 30621	1N4148
6291	4822 130 30621	1N4148
6292	4822 130 30621	1N4148
6293	4822 130 30621	1N4148
6294	4822 130 30621	1N4148
6295	4822 130 30621	1N4148
6296	4822 130 30621	1N4148
6297	4822 130 30621	1N4148
6298	4822 130 34281	BZX79-C15
6299	4822 130 30621	1N4148
6301	4822 130 34499	BZX79-C20
6302	4822 130 34281	BZX79-C15
6303	4822 130 30621	1N4148
6304	4822 130 30621	1N4148
6305	4822 130 30621	1N4148
6306	5322 130 30684	1N4002GP
6307	5322 130 30684	1N4002GP
6308	4822 130 30621	1N4148
6309	4822 130 30621	1N4148
6311	4822 130 30621	1N4148
6312	4822 130 30621	1N4148
6313	4822 130 30621	1N4148

TRANSISTORS & IC's

7250	4822 130 40937	BC548B
7251	4822 130 40937	BC548B
7252	4822 209 80891▲	MC78M05CT
7255	4822 209 83274	NJM4560D
7256	4822 130 41691	BC556B
7257	4822 130 41691	BC556B
7258	4822 130 43283	2SC2705
7259	4822 130 43283	2SC2705
7260	4822 130 63317	2SC3419Y
7261	4822 130 63317	2SC3419Y
7264	4822 130 40937	BC548B
7265	4822 130 40937	BC548B
7266	4822 130 44197	BC558B
7267	4822 130 44197	BC558B
7268	4822 130 62954▲	2SD1895
7269	4822 130 62954▲	2SD1895
7270	4822 130 62954▲	2SD1895

7271	4822 130 62954▲	2SD1895
7272	4822 130 62953▲	2SB1255
7273	4822 130 62953▲	2SB1255
7274	4822 130 62953▲	2SB1255
7275	4822 130 62953▲	2SB1255
7276	4822 130 40937	BC548B
7277	4822 130 44461▲	BC546B
7279	4822 130 44461	BC546B
7280	4822 130 44461	BC546B
7281	4822 130 62952▲	BDT61F
7282	4822 130 40824▲	BD136
7283	4822 130 40937	BC548B
7284	4822 130 40937	BC548B
7285	4822 130 40937	BC548B
7286	4822 130 40941	BC558
7287	4822 130 40937	BC548B
7288	4822 130 40937	BC548B
7289	4822 130 40937	BC548B
7290	4822 130 41691	BC556B
7291	4822 130 44461	BC546B

DIGITAL SELECTOR

CAPACITORS

1478	4822 267 31452	Pin jack
2475	4822 126 10781	470pF 50V
2476	4822 122 33195	100pF 10% 50V
2477	4822 126 10781	470pF 50V
2478	4822 122 33195	100pF 10% 50V
2479	4822 126 10781	470pF 50V
2480	4822 122 33195	100pF 10% 50V
2485	4822 122 10466	220pF 10% 50V
2487	4822 122 10466	220pF 10% 50V
2490	4822 124 40435	10µF 20% 50V
2493	4822 122 33195	100pF 10% 50V
2496	4822 126 10781	470pF 50V
2497	4822 124 40435	10µF 20% 50V
2498	4822 124 40435	10µF 20% 50V
2499	4822 122 33195	100pF 10% 50V
2500	4822 122 33195	100pF 10% 50V
2501	4822 122 33195	100pF 10% 50V
2502	4822 122 33069	33pF 5%5L 50V
2503	4822 126 11585	22nF +80-20% 25V
2504	4822 124 40433	47µF 20% 25V
2505	4822 126 11585	22nF +80-20% 25V
2507	4822 126 12787	330pF 10% 50V
2508	4822 126 12787	330pF 10% 50V
2509	4822 126 11585	22nF +80-20% 25V
2511	4822 126 11585	22nF +80-20% 25V
2512	4822 124 40246	4,7µF 20% 63V

RESISTORS

3475	4822 116 52202	82Ω 5% 0,5W
3476	4822 116 52176	10Ω 5% 0,5W
3477	4822 116 52202	82Ω 5% 0,5W
3478	4822 116 52176	10Ω 5% 0.5W
3479	4822 116 52202	82Ω 5% 0.5W
3480	4822 116 52176	10Ω 5% 0.5W
3485	4822 116 52269	3k3 5% 0,5W
3486	4822 050 11002	1k 1% 0,4W
3489	4822 116 52269	3k3 5% 0.5W
3490	4822 050 11002	1k 1% 0,4W
3493	4822 116 52202	82Ω 5% 0.5W
3494	4822 050 22701	270Ω 1% 0,6W
3495	4822 050 22701	270Ω 1% 0,6W
3496	4822 050 11002	1k 1% 0,4W
3497	4822 050 11002	1k 1% 0,4W
3498	4822 050 11002	1k 1% 0,4W
3499	4822 116 52296	6k8 5% 0.5W
3500	4822 116 52233	10k 5% 0,5W
3501	4822 116 52233	10k 5% 0.5W
3502	4822 052 10479▲	47Ω 5% 0.33W
3503	4822 050 11002	1k 1% 0,4W
3504	4822 116 52202	82Ω 5% 0,5W
3505	4822 052 10479▲	47Ω 5% 0,33W
3507	4822 052 10479▲	47Ω 5% 0.33W
3508	4822 050 11002	1k 1% 0,4W

COIL

5477	4822 157 70601	Coil 100µH

DIODES

6477	4822 130 30621	1N4148
6478	4822 130 30621	1N4148
6479	4822 130 30621	1N4148
6480	4822 130 30621	1N4148
6481	4822 130 34268	BZX79-C16
6482	4822 130 34167	BZX79-C6V2

TRANSISTORS & IC's

7475	4822 209 71339	TC9164AN
7476	5322 209 11323	N74HCU04N
7478	5322 209 11323	N74HCU04N
7479	4822 130 44197	BC558B
7480	4822 130 40823	BD135

AC OUTLET

1525	4822 276 13224▲	Power switch
1526	4822 265 20594▲	Mains outlet
1527	4822 265 20594▲	Mains outlet
1528	4822 265 20594▲	Mains outlet
1531	5322 253 30373▲	Fuse 2A
1531	4822 070 34002▲	Fuse 4A only/01S
1532	4822 272 10315▲	Volt.sel. only/01S
2525	4822 126 12224▲	4,7nF 20% 125V

SELECTOR and FRONT UNIT

MISCELLANEOUS

75	4822 255 41247	Ledholder
76	4822 466 70733	Light screen
1401	4822 267 31451	Pin jack
1402	4822 267 31451	Pin jack
1403	4822 267 31449	Pin jack
1601	4822 267 31453	Socket
1605	4822 273 10237	Rotary switch
1606	4822 276 13213	Tact switch
1607	4822 276 13213	Tact switch
1608	4822 276 13213	Tact switch
1609	4822 276 13213	Tact switch
1610	4822 276 13213	Tact switch
1611	4822 276 13213	Tact switch
1612	4822 276 13213	Tact switch
1620	4822 134 41102	Lamp 12V 75mA
1621	4822 134 41102	Lamp 12V 75mA
1622	4822 134 41102	Lamp 12V 75mA
1623	4822 134 41102	Lamp 12V 75mA
1624	4822 134 41102	Lamp 12V 75mA
1625	4822 134 41102	Lamp 12V 75mA
1626	4822 134 41102	Lamp 12V 75mA
1710	4822 265 41324	Connector 11P
1711	4822 267 51238	Connector 16P
1712	4822 267 51237	Connector 11P
1714	4822 267 51161	Connector 6P

CAPACITORS

2401	4822 122 33195	100pF 10% 50V
2402	4822 122 33195	100pF 10% 50V
2403	4822 122 33195	100pF 10% 50V
2404	4822 122 33195	100pF 10% 50V
2405	4822 124 40242	1µF 20% 63V
2406	4822 124 40242	1µF 20% 63V
2407	4822 122 33197	1nF 10% 50V
2408	4822 122 33197	1nF 10% 50V
2409	4822 124 23176	22µF 20% 16V
2410	4822 124 23176	22µF 20% 16V
2411	4822 121 51387	10nF 20% 16V
2412	4822 121 51387	10nF 20% 16V
2413	4822 126 12148	2,7nF 10%
2414	4822 126 12148	2,7nF 10%
2415	4822 124 40435	10µF 20% 50V
2416	4822 124 40435	10µF 20% 50V
2417	4822 122 33195	100pF 10% 50V
2418	4822 122 33195	100pF 10% 50V
2419	4822 126 11585	22nF +80-20% 25V
2420	4822 126 11585	22nF +80-20% 25V
2421	4822 124 40433	47µF 20% 25V
2422	4822 124 40433	47µF 20% 25V
2423	4822 122 33195	100pF 10% 50V
2424	4822 122 33195	100pF 10% 50V
2425	4822 122 33195	100pF 10% 50V
2426	4822 122 33195	100pF 10% 50V
2427	4822 122 33195	100pF 10% 50V
2428	4822 122 33195	100pF 10% 50V
2429	4822 122 33195	100pF 10% 50V
2430	4822 122 33195	100pF 10% 50V
2431	4822 122 33195	100pF 10% 50V
2432	4822 122 33195	100pF 10% 50V
2433	4822 122 33195	100pF 10% 50V
2434	4822 122 33195	100pF 10% 50V
2435	4822 122 33195	100pF 10% 50V
2436	4822 122 33195	100pF 10% 50V
2437	4822 122 33195	100pF 10% 50V
2438	4822 122 33195	100pF 10% 50V
2439	4822 122 33195	100pF 10% 50V
2440	4822 122 33195	100pF 10% 50V
2441	4822 122 33195	100pF 10% 50V
2442	4822 122 33195	100pF 10% 50V
2443	4822 126 11585	22nF +80-20% 25V
2444	4822 126 11585	22nF +80-20% 25V
2445	4822 124 22347	47µF 20% 50V
2446	4822 124 23624	47µF 20% 16V
2447	4822 126 11585	22nF +80-20% 25V
2448	4822 126 11585	22nF +80-20% 25V
2449	4822 126 11585	22nF +80-20% 25V
2450	4822 126 11585	22nF +80-20% 25V
2451	4822 124 22347	47µF 20% 50V
2452	4822 124 40433	47µF 20% 25V
2453	4822 126 11585	22nF +80-20% 25V
2454	4822 126 11585	22nF +80-20% 25V
2464	4822 126 11005	4,7nF 20% 50V
2465	4822 126 11005	4,7nF 20% 50V
2466	4822 126 11005	4,7nF 20% 50V
2467	4822 126 11005	4,7nF 20% 50V
2468	4822 126 11005	4,7nF 20% 50V

2469	4822 126 11005	4,7nF 20% 50V
2470	4822 126 11005	4,7nF 20% 50V
2471	4822 126 11005	4,7nF 20% 50V
2472	4822 126 11005	4,7nF 20% 50V
2473	4822 126 11005	4,7nF 20% 50V
2474	4822 126 11005	4,7nF 20% 50V
2600	4822 124 40435	10µF 20% 50V
2601	4822 121 41754	82nF 10% 100V
2602	4822 121 41754	82nF 10% 100V
2603	4822 124 23179	10µF 20% 16V
2604	4822 124 23179	10µF 20% 16V
2605	4822 122 33848	47pF 5%SL 50V
2606	4822 122 33848	47pF 5%SL 50V
2607	4822 122 33195	100pF 10% 50V
2608	4822 122 33195	100pF 10% 50V
2609	4822 122 33195	100pF 10% 50V
2610	4822 122 33195	100pF 10% 50V
2611	4822 124 23176	22µF 20% 16V
2612	4822 124 23176	22µF 20% 16V
2613	4822 124 42368	22µF 35V
2614	4822 124 42368	22µF 35V
2615	4822 126 11585	22nF +80-20% 25V
2616	4822 126 11585	22nF +80-20% 25V
2617	4822 121 51387	10nF 20% 16V
2618	4822 124 40242	1µF 20% 63V
2619	4822 121 51387	10nF 20% 16V
2621	4822 121 51409	120nF 5% 63V
2622	4822 121 51409	120nF 5% 63V
2623	4822 121 51409	120nF 5% 63V
2624	4822 121 51409	120nF 5% 63V
2625	4822 126 11714	4,7nF 20%
2626	4822 126 11714	4,7nF 20%
2627	4822 124 41969	1µF 20% 50V
2628	4822 124 41969	1µF 20% 50V
2629	4822 122 33195	100pF 10% 50V
2630	4822 122 33195	100pF 10% 50V
2631	4822 122 10573	56pF 5% 50V
2632	4822 122 10573	56pF 5% 50V
2633	4822 124 23176	22µF 20% 16V
2634	4822 124 23176	22µF 20% 16V
2635	4822 126 11585	22nF +80-20% 25V
2636	4822 126 11585	22nF +80-20% 25V
2637	4822 124 42368	22µF 35V
2638	4822 124 42368	22µF 35V
2639	4822 126 11585	22nF +80-20% 25V
2640	4822 121 42408	220nF 5% 63V
2641	4822 124 22347	47µF 20% 50V
2642	4822 122 10459	560pF 10% 50V
2643	4822 124 40246	4,7µF 20% 63V
2644	4822 124 40242	1µF 20% 63V
2661	4822 126 11585	22nF +80-20% 25V
2662	4822 126 11585	22nF +80-20% 25V
2663	4822 126 11714	4,7nF 20%
2664	4822 121 42408	220nF 5% 63V
2667	4822 124 23176	22µF 20% 16V
2668	4822 121 51412	560nF 5% 63V
2669	5322 121 42498	680nF 5% 63V
2670	5322 121 42498	680nF 5% 63V
2672	4822 126 11714	4,7nF 20%
2685	4822 124 40435	10µF 20% 50V
2686	4822 126 11585	22nF +80-20% 25V
2687	4822 124 40244	2,2µF 20% 63V
2688	4822 121 41853	100nF 10% 100V

RESISTORS

3401	4822 116 52222	390Ω 5% 0,5W
3402	4822 116 52222	390Ω 5% 0,5W
3403	4822 116 52272	330k 5% 0,5W
3404	4822 116 52272	330k 5% 0.5W
3405	4822 116 52291	56k 5% 0,5W
3406	4822 116 52291	56k 5% 0,5W
3407	4822 116 52222	390Ω 5% 0,5W
3408	4822 116 52222	390Ω 5% 0,5W
3409	4822 116 52175	100Ω 5% 0,5W
3410	4822 116 52175	100Ω 5% 0,5W
3411	4822 116 52222	390Ω 5% 0,5W
3412	4822 116 52222	390Ω 5% 0,5W
3413	4822 116 52272	330k 5% 0,5W
3414	4822 116 52272	330k 5% 0,5W
3415	4822 116 52264	27k 5% 0,5W
3416	4822 116 52264	27k 5% 0,5W
3417	4822 116 52175	100Ω 5% 0,5W
3418	4822 116 52175	100Ω 5% 0,5W
3419	4822 116 52234	100k 5% 0,5W
3420	4822 116 52234	100k 5% 0,5W
3421	4822 116 52217	270Ω 5% 0,5W
3422	4822 116 52217	270Ω 5% 0,5W
3423	4822 050 11002	1k 1% 0,4W
3424	4822 050 11002	1k 1% 0,4W
3425	4822 050 11002	1k 1% 0,4W
3426	4822 050 11002	1k 1% 0.4W
3427	4822 116 52175	100Ω 5% 0,5W
3428	4822 116 52175	100Ω 5% 0,5W
3429	4822 116 52175	100Ω 5% 0,5W
3430	4822 116 52175	100Ω 5% 0,5W
3431	4822 116 52175	100Ω 5% 0,5W
3432	4822 116 52175	100Ω 5% 0,5W
3433	4822 116 52175	100Ω 5% 0,5W
3434	4822 116 52175	100Ω 5% 0,5W
3435	4822 116 52175	100Ω 5% 0,5W
3436	4822 116 52175	100Ω 5% 0,5W
3437	4822 116 52175	100Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52175	100Ω 5% 0,5W
3440	4822 116 52175	100Ω 5% 0,5W
3441	4822 116 52175	100Ω 5% 0,5W
3442	4822 116 52175	100Ω 5% 0,5W
3443	4822 116 52217	270Ω 5% 0,5W
3444	4822 116 52217	270Ω 5% 0,5W
3445	4822 116 52217	270Ω 5% 0,5W
3446	4822 116 52217	270Ω 5% 0,5W
3447	4822 116 52269	3k3 5% 0,5W
3448	4822 116 52269	3k3 5% 0,5W
3455	4822 116 52202	82Ω 5% 0,5W
3600	4822 116 52283	4k7 5% 0,5W
3601	4822 101 21175	50k POTM.
3603	4822 101 21176	100k POTM.
3605	4822 116 52289	5k6 5% 0,5W
3606	4822 116 52289	5k6 5% 0.5W
3607	4822 116 52284	47k 5% 0,5W
3608	4822 116 52284	47k 5% 0,5W
3609	4822 050 11002	1k 1% 0,4W
3610	4822 050 11002	1k 1% 0,4W
3611	4822 116 52234	100k 5% 0,5W
3612	4822 116 52234	100k 5% 0,5W
3613	4822 050 11002	1k 1% 0,4W
3614	4822 050 11002	1k 1% 0,4W
3615	4822 050 11002	1k 1% 0,4W
3616	4822 050 11002	1k 1% 0,4W
3617	4822 116 52256	2k2 5% 0,5W
3618	4822 116 52256	2k2 5% 0,5W
3619	4822 052 10479▲	47Ω 5% 0,33W
3620	4822 052 10479▲	47Ω 5% 0,33W
3621	4822 116 52175	100Ω 5% 0,5W
3622	4822 116 52175	100Ω 5% 0,5W
3623	4822 116 52283	4k7 5% 0,5W
3624	4822 116 52283	4k7 5% 0,5W
3625	4822 116 52226	560Ω 5% 0,5W
3626	4822 116 52226	560Ω 5% 0,5W
3627	4822 116 52283	4k7 5% 0,5W
3628	4822 116 52283	4k7 5% 0,5W
3629	4822 116 52226	560Ω 5% 0,5W
3630	4822 116 52226	560Ω 5% 0,5W
3631	4822 116 52256	2k2 5% 0,5W
3632	4822 116 52256	2k2 5% 0,5W
3637	4822 050 11002	1k 1% 0,4W
3638	4822 050 11002	1k 1% 0,4W
3639	4822 116 52234	100k 5% 0,5W
3640	4822 116 52224	470Ω 5% 0,5W
3641	4822 116 52284	47k 5% 0,5W
3645	4822 116 52202	82Ω 5% 0,5W
3646	4822 116 52202	82Ω 5% 0,5W
3647	4822 116 52283	4k7 5% 0,5W
3648	4822 116 52283	4k7 5% 0,5W
3649	4822 116 52249	1k8 5% 0,5W
3650	4822 116 52249	1k8 5% 0,5W
3651	4822 101 21177	20k POTM.
3652	4822 101 21177	20k POTM.
3653	4822 116 52283	4k7 5% 0,5W
3654	4822 116 52283	4k7 5% 0,5W
3655	4822 116 52249	1k8 5% 0,5W
3656	4822 116 52249	1k8 5% 0,5W
3657	4822 116 52213	180Ω 5% 0,5W
3658	4822 116 52213	180Ω 5% 0,5W
3659	4822 116 52175	100Ω 5% 0,5W
3660	4822 116 52175	100Ω 5% 0,5W
3661	4822 116 52292	560k 5% 0,5W
3662	4822 116 52292	560k 5% 0,5W
3665	4822 052 10479▲	47Ω 5% 0,33W
3666	4822 052 10479▲	47Ω 5% 0,33W
3667	4822 116 52289	5k6 5% 0,5W
3668	4822 116 52289	5k6 5% 0,5W
3669	4822 050 21005	1M 1% 0,6W
3670	4822 116 52233	10k 5% 0,5W
3671	4822 116 52197	56Ω 5% 0,5W
3672	4822 116 52233	10k 5% 0,5W
3673	4822 050 21005	1M 1% 0,6W
3674	4822 050 21005	1M 1% 0,6W
3675	4822 116 52222	390Ω 5% 0,5W
3676	4822 116 52249	1k8 5% 0,5W
3677	4822 116 52233	10k 5% 0,5W
3678	4822 052 10228▲	2Ω2 5% 0,33W
3679	4822 053 11159▲	15Ω 5% 2W
3680	4822 116 52269	3k3 5% 0,5W
3685	4822 052 10109▲	10Ω 5% 0,33W
3686	4822 050 21005	1M 1% 0,6W
3687	4822 116 52252	180k 5% 0,5W
3688	4822 116 52233	10k 5% 0,5W
3689	4822 116 52283	4k7 5% 0,5W
3690	4822 116 52269	3k3 5% 0,5W
3691	4822 116 52249	1k8 5% 0,5W
3692	4822 116 52252	180k 5% 0,5W
3693	4822 052 10478▲	4Ω7 5% 0,33W
3696	4822 116 52217	270Ω 5% 0,5W
3697	4822 116 52217	270Ω 5% 0,5W
3698	4822 116 52217	270Ω 5% 0,5W
3699	4822 116 52217	270Ω 5% 0,5W
3700	4822 116 52217	270Ω 5% 0,5W
3701	4822 116 52217	270Ω 5% 0,5W
3702	4822 116 52217	270Ω 5% 0,5W
3703	4822 116 52217	270Ω 5% 0,5W
3704	4822 116 52215	220Ω 5% 0,5W
3705	4822 050 11002	1k 1% 0,4W
3706	4822 050 11002	1k 1% 0,4W
3708	4822 050 11002	1k 1% 0,4W
3709	4822 050 11002	1k 1% 0,4W
3710	4822 050 11002	1k 1% 0,4W
3711	4822 050 11002	1k 1% 0,4W
3714	4822 050 11002	1k 1% 0,4W
3716	4822 116 52256	2k2 5% 0,5W
3717	4822 116 52256	2k2 5% 0.5W
3718	4822 116 52256	2k2 5% 0,5W
3719	4822 116 52256	2k2 5% 0,5W

3720	4822 116 52256	2k2 5% 0,5W
3721	4822 116 52256	2k2 5% 0,5W
3722	4822 050 11002	1k 1% 0,4W
3724	4822 116 52233	10k 5% 0,5W
3726	4822 116 52233	10k 5% 0,5W
3728	4822 116 52251	18k 5% 0,5W
3730	4822 116 52264	27k 5% 0,5W
3731	4822 116 52264	27k 5% 0,5W
3732	4822 116 52264	27k 5% 0,5W
3733	4822 116 52264	27k 5% 0,5W
3734	4822 116 52264	27k 5% 0,5W
3739	4822 116 52284	47k 5% 0,5W
3740	4822 116 52284	47k 5% 0,5W
3741	4822 116 52284	47k 5% 0,5W
3742	4822 116 52284	47k 5% 0,5W
3744	4822 116 52257	22k 5% 0,5W
3745	4822 116 52235	1M 5% 0,5W
3746	4822 116 52284	47k 5% 0,5W
3747	4822 116 52233	10k 5% 0,5W
3750	4822 116 52283	4k7 5% 0,5W
3751	4822 116 52283	4k7 5% 0,5W
3752	4822 116 52283	4k7 5% 0,5W
3753	4822 116 52283	4k7 5% 0,5W

COILS

5601	4822 101 21178	Coil 120µH
5602	4822 101 21178	Coil 120µH
5605	4822 242 72527	CST 4MHz

DIODES

6401	4822 130 31253	BZX79-C2V4
6601	4822 130 30621	1N4148
6603	4822 130 30621	1N4148
6604	4822 130 34278	BZX79-C6V8
6605	4822 130 34278	BZX79-C6V8
6606	4822 130 30621	1N4148
6607	4822 130 30621	1N4148
6608	4822 130 30621	1N4148
6609	4822 130 34499	BZX79-C20
6610	5322 130 30684	1N4002GP
6611	4822 130 30621	1N4148
6612	4822 130 34233	BZX79-C5V1
6613	4822 130 31253	BZX79-C2V4
6614	4822 130 34167	BZX79-C6V2
6615	4822 130 34174	BZX79-C4V7
6616	4822 130 31253	BZX79-C2V4
6617	4822 130 34499	BZX79-C20
6620	4822 130 31253	BZX79-C2V4
6621	4822 130 31253	BZX79-C2V4
6629	4822 130 30621	1N4148
6630	4822 130 30621	1N4148
6632	4822 130 30621	1N4148
6633	4822 130 30621	1N4148
6634	4822 130 30621	1N4148
6635	4822 130 82978	LED
6636	4822 130 82978	LED
6637	4822 130 82978	LED
6638	4822 130 82978	LED
6639	4822 130 82978	LED
6640	4822 130 82978	LED
6641	4822 130 82978	LED
6642	4822 130 82978	LED
6643	4822 130 82978	LED
6644	4822 130 82978	LED
6645	4822 130 82978	LED
6646	4822 130 82978	LED
6647	4822 130 82978	LED
6648	4822 130 82978	LED
6685	4822 130 34197	BZX79-C12
6686	4822 130 30621	1N4148
6687	4822 130 82978	LED
6690	5322 130 34834	BZX79-C3V6
6691	5322 130 34834	BZX79-C3V6
6692	5322 130 34834	BZX79-C3V6
6693	5322 130 34834	BZX79-C3V6
6700	4822 214 52009	GP1U58XP
6701	4822 130 30621	1N4148
6702	4822 130 30621	1N4148
6703	4822 130 30621	1N4148
6704	4822 130 30621	1N4148
6705	4822 130 30621	1N4148
6706	4822 130 30621	1N4148

TRANSISTORS & IC's

7401	4822 209 73064	NJM2068D-D
7402	4822 209 72748	LC7821
7403	4822 209 72748	LC7821
7601	4822 130 40937	BC548B
7602	4822 130 40937	BC548B
7603	4822 209 30941	NJM2068D
7604	4822 130 40937	BC548B
7605	4822 209 10263	HEF4052BP
7607	4822 130 40937	BC548B
7608	4822 130 40937	BC548B
7609	4822 209 83274	NJM4560D
7610	4822 209 63667	BA6229
7611	5322 130 42216	TL081CP
7612	4822 130 44197	BC558B
7631	4822 130 40937	BC548B
7633	4822 130 40937	BC548B
7636	4822 130 40937	BC548B
7639	4822 130 44197	BC558B

7640	4822 130 40937	BC548B
7641	4822 130 40937	BC548B
7642	4822 130 40937	BC548B
7643	4822 130 40937	BC548B
7644	4822 130 40937	BC548B
7645	4822 130 40937	BC548B
7646	4822 130 40937	BC548B
7647	5322 209 11532	PC74HC4094P
7648	5322 209 11532	PC74HC4094P
7649	4822 209 31168	ST93C06B1
7650	4822 209 32414	MC68HC05C8
7685	4822 209 10264	HEF4069UBP
5001	4822 146 31225▲	Mains Trafo
5001	4822 146 31326▲	Trafo only/01s